

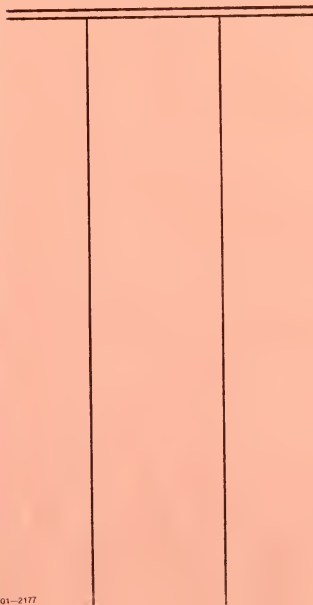
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Compliments of

John Laing,

Chief of Department of Mines.

WEST VIRGINIA, U. S. A.

ANNUAL REPORT

OF THE

DEPARTMENT OF MINES

FOR THE YEAR ENDING

JUNE 30, 1909

JOHN LAING,
CHIEF OF DEPARTMENT OF MINES
CHARLESTON



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ERRATA.

Page 10, ten lines from bottom should read, *compared with*, instead of *wish*.

Page 11, Clarksburg Fuel Co., fifth line down, should read, *Two Lick* instead of *Two Dick*.

Page 14, Preston County, fourth line from top, should read *Coal* instead of *cool*.

Page 17, sixteen lines from bottom, should read, *Deitz*, No. 5, instead of No. 2.

Page 22, three lines from bottom, should read *coal* instead of *caal*.

Page 23, twelve lines from bottom, should read *Crane Creek*, instead of *Cram Creek*.

Page 25, twelve lines from bottom, should read *Bottom*, instead of *Batton*.

Page 39, fifth line should read *Rex* instead of *Rey*.

Page 61, seventeen lines from bottom, should read *New River*, instead of *New Eiver*.

Page 66, under Kanawha County, should read *Cannelton Coal Co*.

Page 307, second line from bottom, should read Counties of Lincoln, Logan, Mingo, Wayne and Cabell.

PERSONEL OF THE DEPARTMENT OF MINES.

JOHN LAING, *Chief of the Department of Mines.*

R. S. LARUE, *Inspector for the First District.*

F. E. PARSONS, *Inspector for the Second District.*

JOHN F. BRATT, *Inspector for the Third District.*

J. A. SPRINGER, *Inspector for the Fourth District.*

EARL A. HENRY, *Inspector for the Fifth District.*

BONNER H. HILL, *Inspector for the Sixth District.*

WILLIAM WARNER, *Inspector for the Seventh District.*

*J. A. STRAUGHAN, *Inspector for the Eighth District.*

*JOHN PHILLIPS, *Inspector for the Ninth District.*

LANCE B. HOLLIDAY, *Inspector for the Ninth District.*

*D. R. PHILLIPS, *Inspector for the Tenth District.*

*JAMES G. BOYD, *Inspector for the Eleventh District.*

WILLIAM NICHOLSON, *Inspector for the Eleventh District.*

PATRICK A. GRADY, *Inspector for the Twelfth District.*

*J. A. STRAUGHAN, *Inspector until April 1st, 1909.*

*JOHN PHILLIPS, *Inspector until April 30th, 1909.*

*D. R. PHILLIPS, *Inspector until March 31st, 1909.*

*JAMES G. BOYD, *Inspector until November 15th, 1908.*

*The work in these Districts was looked after by Special Mine Inspectors until regular District Mine Inspectors were appointed.

LETTER OF TRANSMITTAL.

DEPARTMENT OF MINES,
STATE OF WEST VIRGINIA.

To His Excellency, W. E. GLASSCOCK,

Governor of West Virginia.

SIR:—In compliance with the Mining Law of the State of West Virginia, as amended by the Legislature in Regular session, February, 1907, I beg to submit herewith my first annual report for the Department of Mines for the year ending June 30, 1909, being the fifth annual report of the Department of Mines, and embracing the twenty-seventh annual report upon the condition of the coal mines within the State, as reported by the several District Inspectors.

Very respectfully,

JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va., December 18th, 1909.

ANNUAL REPORT

ANNUAL REPORT.

To the Governor:

The report herewith is for the year ending June 30th, 1909.

On December 21st, 1908, the writer was appointed by Gov. Wm. O. Dawson to succeed Mr. James W. Paul, as Chief of the Department of Mines, the latter having accepted a position with United States Geological Survey, Technologic Branch, at their Pittsburg Testing Station.

During the past year there has been a very gradual movement towards the restoration of normal business conditions throughout the state, which has resulted in an increased tonnage in both coal and coke over the production of 1908.

The market conditions affect the production of coal and coke in this State, perhaps more than in others, on account of the distance from the principal markets. However, the superior quality of West Virginia coal has tended to create a demand for it, and thereby caused a production it would not otherwise have.

INSPECTIONS MADE.

The District Inspectors during the year made a total of 2,101 records of inspections and visits to the mines. Included in these are a number of visits for the purpose of conferring with the officials relative to improvement of conditions within the mines.

LABOR IN MINES.

Several efforts have been made to ascertain the number of different nationalities that are employed within the mines of the State, but owing to the incomplete reports made by some of the operators the efforts have been only partially successful.

On page 93 of this report may be found a summary of the nationalities employed. The table is complete with the exception of listing the nationalities of 10,661 persons.

Out of a total of 62,189 persons employed the nationality is reported upon 51,528 and of this number there are 24,696 white Americans, 10,550 Negroes, 6,585 Italians, 3,183 Hungarians, 1,596 Slavish, 1,512 Polish, and 3,406 employes of 18 other nationalities.

RESIGNATIONS.

Mr. James W. Paul resigned as Chief of the Department of Mines October 10th, 1908, to accept a position with the United States Geological Survey, headquarters in Pittsburg, Pa.

Mr. James G. Boyd, District Inspector of the Eleventh District, November 15, 1908.

Mr. J. A. Straughan, District Inspector of the Eighth District, March 31, 1909.

Mr. D. R. Phillips, District Inspector of the Tenth District, March 31, 1909.

Mr. John Phillips, District Inspector of the Ninth District, April 30, 1909.

APPOINTMENTS.

Mr. L. B. Holliday was appointed District Inspector for the Ninth District May 12, 1909, to succeed Mr. John Phillips.

PRODUCTION OF COAL AND COKE.

From the 713 producing mines operated by 391 firms, together with the small country mines, the coal produced during the fiscal year 1909 was 41,693,766 gross tons, an increase over the previous year of 2,326,756 tons.

The coke manufactured was 3,125,451 net tons, an increase of 147,188 tons over the previous year.

The total gross revenue obtained from the coal and coke summarized as follows:

Total value of coal produced	\$39,609,079	20
Less value of coal used for steam at the mines... \$ 714,385	75	
Less value of coal used in coke ovens.....	4,414,559	75
	5,128,945	50
Total value of coal sold.....	\$34,480,133	70
Total value of coke produced.....	5,577,276	63
Total gross value of product placed on the market.....	\$40,057,410	33

From the following it is found that the increased value over the previous year was: coal, \$2,325,490.96; and a decrease in coke of \$838,490.79.

The coal produced was disposed of in the following manner.

	(Tons of 2,240 lbs.)
Used in operating the mines.....	751,985
Furnished local trade and tenants.....	380,430
Used in the coke ovens.....	4,646,905
Shipped from the mines.....	35,734,446
Total.....	41,513,766

The above tonnage compared with the previous year.
Originated in the several Geographical Districts as follows:

Districts.	1909.	1908	Changes.
Potomac.....	1,928,937	1,785,305 I	143,632
Monongahela.....	9,326,064	9,603,317 D	277,253
Wheeling.....	888,578	1,037,682 D	149,104
Interior.....	153,840	157,166 D	3,326
Kanawha-New River.....	14,136,752	13,297,923 I	838,829
Norfolk & Western.....	15,079,595	13,305,617 I	1,773,978
Small mines in State.....	180,000	180,000	
Totals.....	41,693,766	39,367,010 I	2,326,756

MACHINE MINED COAL.

The quantity of coal mined by the use of machines was 16,419,264 tons which is 39.55 per cent. of the total coal production of the state and 1,031,569 tons in excess of the machine coal during the year 1908. There were 1,674 machines in use at 404 mines and furnished employment to 14,891 persons.

The following tabulation exhibits the growth of machine mining since 1897:

PROGRESS OF MACHINE MINED COAL 1897 TO 1909, INCLUSIVE.
(Tons of 2,240 lbs.)

YEAR.	No. of Mines Using Ma- chines.	No. of Ma- chines in use.	Total Em- ployes Incident to Ma- chines	Tons Produced by Machines.	Percentage of Coal to Total Coal Production	Days Worked
1897.....	16	55	652	600,418	5.12	197
1898.....	28	96	933	1,070,293	7.4	214
1899.....	41	141	1,608	1,733,279	10.66	240
1900.....	63	241	2,371	2,537,611	13.43	261
1901.....	90	386	3,967	3,582,853	17.65	225
1902.....	124	534	4,813	5,135,823	21.98	249
1903.....	181	795	6,531	6,312,894	27.50	201
1904.....	248	988	8,395	8,317,692	30.82	209
1905.....	280	1,158	10,237	10,315,781	32.74	213
1906.....	301	1,267	10,855	13,333,602	35.65	231
1907.....	360	1,508	12,248	14,549,183	36.34	234
1908.....	399	1,657	14,377	15,387,605	38.00	211
1909.....	404	1,674	14,891	16,419,264	39.55	192
Totals.....		10,500	91,879	99,296,388		Av 221

Tons for 1909, per each employe.....1,103

Tons per each employe per year (average for 13 years).....1,081

Tons produced by each machine per year (average for 13 years).....9,552

Average days worked per year (average for 13 years).....221

Average tons produced by one machine per day (average for 13 years).....432

Average tons produced by one machine per month of 26 days (average for 13 years).....1,124

*TONS OF PICK MINED COAL PRODUCED PER EACH PICK MINER
IN COMMERCIAL COAL MINES, 1897 TO 1909, INCLUSIVE.*

(Tons of 2,240 lbs.)

YEAR.	Pick Coal from Com- mercial Mines.	Pick Coal from Small Country Mines.	Pick Miners in Com- mercial Mines.	Pick Miners in Small Country Mines.	Days Worked.	Tons Produced in Com- mercial Mines per Pick M'n's
1897.....	10,971,482	133,929	13,218	No. rec'd	197	830
1898.....	13,084,572	140,000	14,036	"	214	932
1899.....	14,366,871	150,000	14,119	"	240	1,017.5
1900.....	16,199,300	150,000	14,723	"	261	1,100
1901.....	16,533,138	175,000	16,000	"	225	995
1902.....	18,043,200	180,000	15,969	"	249	1,120.8
1903.....	16,420,804	180,000	16,287	"	201	1,008
1904.....	18,497,025	170,000	18,880	"	209	979.7
1905.....	21,007,248	180,000	19,602	"	213	1,071.7
1906.....	23,889,872	180,000	19,132	"	231	1,248.7
1907.....	25,311,128	180,000	19,287	"	234	1,312
1908.....	23,799,315	180,000	21,728	"	211	1,065.3
1909.....	25,094,502	180,000	22,583	"	192	1,110.3
Totals.....	243,218,517	2,178,929	225,564		2,877	

Average tons per year for each miner (13 years).....1,078

Average time worked per year (13 years).....221 days

ACREAGE MINED.

The total acreage of coal mined within the State, based upon returns made by the operators, and calculations of this office, since 1897 is presented in the following tables:

1897.....	1,733.9	Acres.
1898.....	2,184.6	"
1899.....	2,361.2	"
1900.....	2,638.8	"
1901.....	2,854.6	"
1902.....	3,352.0	"
1903.....	3,222.3	"
1904.....	3,967.7	"
1905.....	4,691.8	"
1906.....	5,516.5	"
1907.....	5,779.7	"
1908.....	5,915.0	"
1909.....	6,608.0	"
<hr/>		
Total.....	50,827.3	"

DAYS WORKED.

The mines in the State averaged 192 days against 211 for the previous year.

TRANSPORTATION OF COAL AND COKE.

During the year the railroads within the State report having handled a total tonnage of 39,101,554 tons of coal, and 3,560,604 tons of coke, of which amounts there originated on the various lines 36,702,121 tons of coal and 2,895,315 tons of coke, while the coal operators report having shipped from the mines 35,734,446 net tons of coal. Between the tonnage originated on the railroads and that reported as shipped from the mines there is a difference of 3,367,108 net tons in excess of the tonnage reported by the railroads. This may be attributed to the railroads not having reported the fuel handled by the railroads three of which failed to report the tonnage of West Virginia fuel consumed by their railroads.

KANAWHA RIVER SHIPMENTS.

For the fiscal year ending June 30th, 1909, the tonnage of coal and coke floated down the Great Kanawha River amounted to:

Coal 1,027,360 net tons. Coke—none reported. This does not include the tonnage of fuel consumed by water craft and local river trade.

COKE OVENS AND COKE PRODUCED.

At 99 coke plants there is reported a total of 19,266 ovens, of which number 9,148 were in active service for 197 days, there being 10,118 ovens reported not in use during the year.

In the manufacture of 3,115,797 net tons of coke there was used 5,153,268 tons of coal, furnished employment to 3,603 persons.

The increase in the production of coke over the previous year was

137,534 tons at a decrease valuation of \$838,490.79. The average price per ton of coke was \$1.79, a decrease of 37 cents per ton during the year.

IMPROVEMENTS.

Many improvements made and some new construction was had during the year including 31 new coal plants; 12 power plants; 30 coke ovens; 27 mine fans; 2 furnaces; 13 tipples; 32 additional openings at old mines.

A detail table of improvements appears on a subsequent page to which special attention is directed, showing the improvements by counties.

MEN EMPLOYED.

During the year there were employed at the mines and coke ovens an average of 62,189 persons, an increase of 1,252 over the previous year. Of the total employes 22,583 were pick miners; 2,750 machine runners and helpers; 12,141 machine miners; 13,093 inside laborers; 3,607 coke workers and 8,015 outside laborers.

To count the mine foremen, superintendents, store managers and clerks employed at the mines it would be safe to add 2,100 persons to the total above, making the total employes directly connected with the operation of the mines 64,289.

WAGES.

The average price received by pick miners through the state per gross ton of run of mine coal was 43 cents against 46 cents the previous year.

Each pick miner averaged a production of 1,113 tons during the year, being 28 tons more than the previous year.

The average yearly wages received per pick miner was \$481.17, a decrease of \$22.67 under the previous year.

The following table exhibits the average prices received for cutting and loading machine coal:

MACHINE MINING PRICES.

Machine miners paid per ton, run of mine in rooms.....	29
Machine miners paid per ton, run of mine in headings.....	32
Machine miners paid per ton, screened in rooms.....	54
Machine miners paid per ton, screened in headings.....	57
Machine runners paid per day.....	2 50
Machine runners paid per ton, run of mine in rooms.....	07
Machine runners paid per ton, run of mine in headings.....	09
Machine runners paid per car.....	11
Machine runners paid per ton screened.....	10

SELLING PRICES.

The average selling price at the mines of all coal shipped was 95 cents per gross ton of run of mine, an average of 11 cents per ton under the price received during the previous year.

Coke at the ovens sold on an average for the year at \$1.79 per ton, a decrease of 37 cents under the previous year.

STRIKES.

At 52 mines, strikes were had during the year, involving 5,423 employes, and a reported loss in wages of \$61,753.63 and to the operators a loss of \$24,792.50.

ACCIDENTS.

During the year there were 364 lives lost, 340 were inside and 24 outside of the mines, and of the 340 inside there were 125 killed in four accidents.

A total of 1032 non-fatalities occurred at mines of which 949 were inside and 83 outside of the mines.

From December 29th, 1908, to January 12th, 1909, inclusive, a total of 15 days there were 117 lives lost in two explosions, 49 in one and 68 in another.

Briefly summarized the explosions in which two or more persons were killed are as follows:

	Killed
September 15th, 1908, Chatham Air Shaft, Marion County, (Gas).....	3
March 31st, 1909, Echo Mine, Fayette County, (Powder).....	6
December 29th, 1908, Lick Branch Mine, McDowell County, (Dust).....	49
*January 12th, 1909, Lick Branch Mine, McDowell County, (Dust).....	67
Total killed	125

Had it not been for the unusual severity of the explosions, the death rate due to accidents would have been very much below the normal fatality ratio.

Each of the accidents above listed, is fully described in another part of this report, and special attention is directed to the circumstances under which these horrible calamities occurred.

The principal agent of destruction in the greatest of these explosions was dust.

During the year 1909 the causes and lives lost inside summarized:

Killed by explosions all forms.....	132
Killed by fall of roof.....	147
Killed by mine cars (inside and outside).....	41
Killed by other causes.....	44
Total	364

Greater care should be exercised, to prevent accidents by falls of roof and by mine cars.

The every day fatalities does not impress public sentiment to the same extent as explosions, although the number killed by falls and mine cars have previously outnumbered those killed by explosions.

Since 1897 there have been killed inside the mines of the State by falls of roof 1227 persons; by mine cars 191 persons; by gas explosions, 127; by dust explosions 484; and by all other causes 533 persons.

As to the length of experience of persons killed and injured, for the past nine years from 1901 to 1909 inclusive, there were injured and killed the following number of persons:

Having a mine experience of one year or less.....	1,389	persons.
2 to 5 years.....	1,596	"
6 to 10 years.....	687	"
11 to 25 years.....	425	"
26 to 50 years.....	65	"
Many years	164	"
Unknown	913	"
Total	5,238	"

The Department has no percentage of persons employed, with their terms of experience, but the table above is ample proof that a greater number having a year or less experience suffers the greatest loss.

Since 1883 the average lives lost inside for every 1,000 persons employed inside the mines, 3.52.

During the year 1908 the ratio per each 1,000 was 12.24, but for the past year the ratio was 6.72.

*One body being found too late for tabulation.

ELECTROCUTIONS.

During the year twelve lives were lost by electrocution, from 1899 to 1909 inclusive, there have been over 38 lives lost by electrocution within the mines.

FATAL ACCIDENTS INSIDE, THEIR CAUSES, SINCE 1897.

Causes	1897	1898	1899	1900	1901	1902
Falls of roof.....	47	67	64	61	76	79
Mine Cars.....	6	6	7	11	11	13
Gas Explosions.....	.....	1	.....	50	10	.....
Dust Explosions.....	.....	.....	.....	.....	.....	.....
All other causes.....	7	2	8	11	24	18
Total.....	60	76	79	132	121	110

Causes	1903	1904	1905	1906	1907	1908	1909
Falls of roof.....	96	95	105	99	130	155	144
Mine cars.....	12	12	18	16	20	28	31
Gas Explosions.....	24	3	1	4	29	2	3
Dust Explosions.....	.....	.....	.....	.....	.....	368	116
All other causes.....	15	13	52	131	136	46	70
Total.....	147	123	176	250	324	599	364

SUMMARY OF ACCIDENTS INSIDE THE MINES 1909-1908.

(I—means increase. D—means Decrease.)

	1909	1908	Changes
Number of employees inside.....	50,567	48,938	1,629 I
Number of days mines were operated.....	192	211	19 D
Number of persons killed inside.....	340	599	259 D
Number of days work accomplished.....	9,708,864	10,325,918	617,054 D
Number killed per 1000 employees inside.....	6.72	12.24	552 D
Number killed per 1000 days worked inside.....	.0350	.0441	.0091 D
Number injured non-fatally inside.....	936	779	157 I
Number injured per 1000 employees inside.....	18.512	17.409	1.103 I
Number injured per 1000 days worked inside.....	.0964	.0754	.0210 I
Number of inside employees for each fatality inside.....	148	122	26 I

TONNAGE PER FATALITY.

Since 1883 the average tons of coal produced per each fatality have been 217,723, including 1909, which is 114,048 tons per fatality. At those mines where fatal accidents occurred there was an average of one life lost for each 54,093 tons of coal produced.

The total of 340 lives lost inside occurred at 173 mines, employing 20,556 persons and producing 18,292,517 gross tons of coal, while at all other mines there were produced 23,121,249 tons of coal without the loss of a single life inside the mines.

SAFETY POWDERS.

During the last two years there have come into use several makes of so called Safety explosives, some of which have been used with good effect in blasting coal and safety to the miner. In order to give the mining officials in the different parts of the state an opportunity to become acquainted with the objects, methods and results of the tests made at the Pittsburg Testing Station of the United States Geological Survey, arrangements were made with the Government officials in charge of the Station to make tests of black powder and the different permissible explosives fired in the presence of gas and coal dust.

And on the 10th, 17th and 24th days of April, 1909, I accompanied delegations from the different sections of the State to witness these tests, which were very conclusive and convincing as to the dangerous character of accumulations of gas and coal dust where blasting with black powder is done.

PERMISSIBLE EXPLOSIVES TESTED PRIOR TO MAY 15, 1909.

Brand.	Manufacturer.
Ætna coal powder A.....	Ætna Powder Co., Chicago, Ill.
Ætna coal powder B.....	Do.
Carbonite No. 1.....	E. I. Du Pont de Nemours Powder Co., Wilmington.
	Del.
Carbonite No. 2.....	Do.
Carbonite No. 3.....	Do.
Carbonite No. 1 L. F.....	Do.
Carbonite No. 2 L. F.....	Do.
Coal special No. 1.....	Keystone Powder Co., Emporium, Pa.
Coal special No. 2.....	Do.
Coalite No. 1.....	Potts Powder Co., New York City.
Coalite No. 2 D.....	Do.
Collier dynamite No. 2.....	Sinnamahoning Powder Co., Emporium, Pa.
Collier dynamite No. 4.....	Do.
Collier dynamite No. 5.....	Do.
Masurite M. L. F.....	Masurite Explosives Co., Sharon, Pa.
Meteor dynamite.....	E. I. Du Pont de Nemours Powder Co., Wilmington.
	Del.
Monobel.....	Do.

DISTRICT INSPECTORS' REPORTS.

Elsewhere in this report will be found the annual report of the district mine inspectors upon the condition of the mines in their respective districts.

The writer desires, in conclusion, to express his appreciation of the confidence reposed in him by your Excellency in his conduct of the affairs pertaining to this Department.

Respectfully Submitted,

JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va., December 3d, 1909.

SUCCESSION OF THE PRINCIPAL COAL BEDS IN THE STATE OF
WEST VIRGINIA, WITH NAMES COMMONLY USED
FOR THEIR DESIGNATION.

Dunkard Series XVI.

1. Washington Coal.
2. Waynesburg A.

Monongahela Series XV.

1. Waynesburg.
2. Uniontown (Chestnut Oak.)
2. Sewickley.
4. Redstone.
5. Pittsburg Coal.

Conemaugh Series XIV.

1. Elk Lick, Four-foot—Mineral Co., Barton.
2. Harlem, Friendsville, Crinoidal.
3. Bakerstown, Price, Four-Foot—Preston Co.
4. Brush Creek, Masontown, Mahoning?

Allegheny Series XIII.

1. Upper Freeport, Griffithsville.
2. Lower Freeport, Hubbardstown Upper.
3. Upper Kittanning.
4. Middle Kittanning, Hocking Valley, Hubbardstown Lower.
5. Lower Kittanning, "Roaring Creek", "No. 5 Block", "Big Bed" North Coalburg, Mason, Davis, O'Brien Creek.
6. Clarion, Brookville.

Kanawha Black Flint—Pottsville Series XII—Upper Pottsville or Kanawha Coals.

1. Stockton, Lewiston?, Belmont, Cannelton, Thomas, Savage.
2. Coalburg, Acme, (Buffalo Creek)?
3. Winifrede, Kanawha, Black Band?
4. Chilton.
5. Cedar Grove, Thacker?
6. Peerless, Alma.
7. No. 2 Gas, Campbell's Creek, Warfield, Rawl, Ansted, Island Creek, Powellton Upper, Page Upper, Montgomery, "Coal Valley Gas" Coal, Butler.
8. Powellton, Brownstown.
9. Eagle, No. 1 Gas Coal.
10. Little Eagle.
11. Upper War Eagle? (Possibly same as Eagle.)
12. Middle War Eagle.
13. Lower War Eagle.

Middle Pottsville or New River Coals.

1. Hughes Ferry, Long Point.
2. Jaeger.
3. Sewell, Nuttall, New River, Davy? Tug River?
4. Welch, Smith, Big Creek, Lambert, Dismal Creek? Hemphill, Tug River Smokeless.
5. Beckley, Winding Gulf, Slab Fork, Eccles Shaft, Raleigh, New River, White Stick, "Noah Jenkins." War Creek?
6. Fire Creek, Quinnimont, New River.
7. Little Fire Creek.

Lower Pottsville or Pocahontas Coals.

1. Thin coals not mined (Pocahontas Nos. 9, 8, 7, 6 & 5.)
2. Pocahontas No. 4, Lower Horsepen?
3. Pocahontas No. 3, Echols? Flat Top.
4. Pocahontas Nos. 2 & 1, not mined.

NOTE:—Where the name of the coal is followed by an interrogation mark (?) there exists some doubt as to the correlation.

LARGE PRODUCERS.

The following 38 companies each produced over 200,000 gross tons of coal during the year.

Fairmont Coal Co.	3,400,734
New River Company	1,903,917
Davis Coal & Coke Co.	1,849,305
United States Coal & Coke Co.	1,712,571
United States Coal & Oil Co.	1,120,885
Pocahontas Consolidated Collieries Co.	1,102,560
Sunday Creek Co.	925,498
New River & Pocahontas Cons. C. Co.	874,478
Cabin Creek Consolidated C. Co.	861,165
Boomer Coal & Coke Co.	623,880
New River Collieries Co.	531,762
McKell Coal & Coke Co.	512,787
Red Jacket Consolidated Coal Co.	481,541
Paint Creek Collieries Co.	481,458
American Coal Co.	472,144
Clarksburg Fuel Co.	439,498
Georges Creek Coal & Iron Co.	428,119
Turkey Gap Coal & Coke Co.	369,747
Raleigh Coal & Coke Co.	367,908
Davis Colliery Co.	367,615
Mill Creek Coal & C. Co.	357,178
The Virginia & Pittsburg C. & C. Co.	345,127
The Century Coal Co. of W. Va.	332,250
Elkins Coal & Coke Co.	298,218
Houston Coal & Coke Co.	294,194
Pulaski Iron Co.	290,152
The Empire Coal & Coke Co.	287,344
Federal Coal & Coke Co.	267,745
New Central Coal Co.	265,142
Thacker Coal & Coke Co.	245,793
West Virginia Colliery Co.	238,770
Page Coal & Coke Co.	232,226
Crozer Coal & C. Co.	226,754
Pittsburg & Fairmont Fuel Co.	223,375
Maderia-Hill-Clark Coal Co.	217,365
The Campbells Creek Coal Co.	210,081
Loup Creek Colliery Co.	203,018
The Carver Bros. Co. (including Mecca Coal & Coke Co.)	200 808

STATISTICAL

*COAL TONNAGE OF THE LEADING COAL PRODUCING STATES FOR
THE CALENDAR YEAR 1908.*

Figures Taken from the U. S. Geological Survey's Report on Coal for 1908.

(Ton of 2000 lbs.)

Pennsylvania	{ Bituminous	117,179,527
	{ Anthracite	83,268,754
Illinois		47,659,690
West Virginia		41,897,843
Ohio		26,270,639
Indiana		12,314,890
Alabama		11,604,593
Kentucky		10,246,553
Colorado		9,634,973
Iowa		7,161,310
Kansas		6,245,508
Tennessee		6,199,171
Wyoming		5,489,902
Maryland		4,377,093
Virginia		4,259,042
Missouri		3,317,315
Washington		3,024,943
Oklahoma (Indian Territory)		2,948,116
Total		403,099,862
Total for all other states		12,742,836
Total for the United States		415,842,698
West Virginia for year ending June 30, 1909.....		46,697,018

(Report of the Department of Mines of West Virginia.)

THE FOLLOWING TABLE EXHIBITS A COMPARATIVE STATEMENT AND SUMMARY OF THE ANNUAL REPORTS
FOR 1909 AND 1908.

	For year ending June 30, 1909.	For year ending June 30, 1908.	Increase of 1909 over 1908.	Decrease of 1909 under 1908
Number of counties in which coal is mined on a commercial scale.....	33	33		
Number of firms operating coal mines on a commercial scale.....	397	388		
Number of openings of all kinds subject to the mining law.....	709	717		8
Number of tons (2,240 lbs.) of pick mined coal from commercial mines.....	25,274,502	23,799,315	1,475,187	
Number of tons (2,240 lbs.) of machined mined coal from commercial mines.....	10,419,294	15,487,895	1,031,569	
Total number of tons (2,240 lbs.) of coal from commercial mines.....	41,513,766	39,187,010	2,326,756	
Estimated tons of coal from small mines (tons of 2,240 lbs.).....	180,000	180,000		
Total number of tons of coal from all mines (2,240 lbs.).....	41,693,766	39,367,010	2,326,756	
Number of tons of coal converted into coke (2,000 lbs.).....	5,153,268	5,062,706	90,562	
Number of tons of coke manufactured (2,000 lbs.).....	3,115,797	2,878,263	137,534	
Total value of coal at the mines.....	39,600,079.20	41,538,230.00		1,929,151.40
Total value of coke at the ovens.....	5,504,557.29	6,433,048.08		838,490.79
Value of a ton of coal at the mines (2,240 lbs.).....	1.79	1.06		.11
Value of a ton of coke at the ovens (2,000 lbs.).....	1.674	2.16		.37
Number of mining machines in use.....	9,235	1,657		
Average number of coke ovens in use.....	132	10,525		17
Number of days the mines were in operation.....	263	211		
Number of days the ovens were in operation.....	22,583	216		47
Number of pick miners employed in commercial coal mines.....	14,891	21,728		855
Number of machine operators and miners employed in commercial coal mines.....	13,093	14,377		514
Number of underground laborers in commercial coal mines.....	8,015	12,833		260
Number of outside employees connected with the commercial coal mines.....	3,007	7,555		460
Number of coke employees.....	62,189	3,904		287
Total number of men employed at the commercial coal mines and ovens.....	102,324	60,397		1,792
Number of men killed.....	432	625		261
Number of men injured non-fatally.....	474	832		180
Number of men employed for each man killed.....	10	96		74
Number of men employed for each man injured.....	114,639	71		11
Tons of coal mined in commercial mines for each fatality.....	40,226	62,689		51,350
Tons of coal mined in commercial mines for each non-fatality.....	141	45,994		5,768
Number of wives left widows.....	324	277		136
Number of children left fatherless.....	6,008	581		257
Acres of coal worked out.....		5,915.03		682.9
Number of tons of coal produced in commercial mines per miner.....	1,113	1,085		28
Pick and machine miners and runners included.....	481.17	503.84		22.67
Average earnings of each pick miner per year.....	40.10	41.90		1.89
Average earnings of each pick miner per month.....	.43	.40		.03
Average price per ton of 2,240 lbs. for mining run of mine coal (cents).....				

TABLE SHOWING PRODUCTION OF COAL AND COKE FOR THE YEARS 1883 TO 1909 INCLUSIVE.

*YEARS.	COAL. (Tons of 2,240 lbs.)	COKE. (Tons of 2,000 lbs.)	YEARS.	COAL. (Tons of 2,240 lbs.)	COKE. (Tons of 2,000 lbs.)
1883.....	2,805,565	190,889	1897.....	11,705,829	1,374,497
1884.....	3,000,000	182,000	1898.....	14,294,865	1,742,256
1885.....	3,008,091	187,619	1899.....	16,250,150	1,950,179
1886.....	3,213,093	228,623	1900.....	18,886,911	2,496,107
1887.....	4,207,039	481,477	1901.....	20,290,991	1,932,912
1888.....	4,799,611	517,317	1902.....	23,359,083	2,249,744
1889.....	4,663,857	506,716	1903.....	22,913,698	2,483,376
1890.....	5,643,946	892,490	1904.....	26,984,715	2,276,451
1891.....	7,281,427	1,208,418	1905.....	31,503,029	2,738,777
1892.....	7,777,570	1,333,439	1906.....	37,403,474	3,534,314
1893.....	9,758,991	1,090,909	1907.....	40,040,311	3,828,649
1894.....	9,427,028	1,067,156	1908.....	39,367,010	2,978,263
1895.....	9,878,069	1,204,657	1909.....	41,671,403	3,096,561
1896.....	12,062,468	1,594,691			

*Calendar years 1883 to 1887 inclusive. Since 1887 the Coal and Coke Statistics have been given for the fiscal year ending June 30th.

TABLE SHOWING THE COKE PRODUCTION BY COUNTIES FROM 1897 TO 1903 INCLUSIVE.
(Tons of 2,000 lbs.)

COUNTIES.	1897	1898	1899	1900	1901	1902	1903
Barbour.....		1,350	5,980	12,579	12,666	15,682	20,991
Fayette.....	329,089	394,052	454,999	481,099	442,411	515,398	437,090
Harrison.....		5,419	5,871	15,994	5,190	16,572	62,382
Kanawha.....	20,132	21,578	10,983	32,665	30,722	29,722	25,789
Marion.....	142,043	149,060	155,985	298,119	118,285	210,451	282,924
McDowell.....	567,070	731,681	923,166	1,070,033	953,702	929,433	1,016,988
Mercer.....	115,522	149,061	192,932	207,277	167,769	175,083	167,567
Monongalia.....	2,778	12,337	5,204	17,077	5,777	19,948	30,509
Preston.....	19,567	28,450	34,023	46,250	6,500	18,930	34,627
Raleigh.....	18,454	20,007	20,398	15,460			
Randolph.....				3,223	13,498	38,845	120,387
Tucker.....	159,842	229,261	140,638	295,731	176,392	279,680	284,122
Taylor.....							
Upshur.....							
Totals.....	1,374,497	1,742,256	1,950,179	2,496,107	1,932,912	2,249,744	2,483,376

TABLE SHOWING THE COKE PRODUCTION BY COUNTIES FROM 1904 TO 1909 INCLUSIVE.
(Tons of 2,000 lbs.)

COUNTIES.	1904	1905	1906	1907	1908	1909
Barbour.....	19,128	11,967	17,643	34,030	44,350	27,203
Fayette.....	434,919	430,163	614,428	615,577	415,425	525,154
Harrison.....	621		768	22,390	1,092	275
Kanawha.....	9,547	19,993	31,527	18,287	12,124	
Marion.....	102,416	127,850	171,621	233,700	105,743	65,213
McDowell.....	1,170,200	1,380,805	1,699,426	1,744,819	1,681,884	1,733,479
Mercer.....	190,132	267,697	318,357	313,117	219,597	220,681
Monongalia.....	22,999	42,802	58,264	113,031	76,586	117,254
Preston.....	27,611	79,757	142,236	222,846	138,644	175,915
Raleigh.....					497	
Randolph.....	77,077	146,243	231,616	244,054	129,273	128,401
Tucker.....	221,801	231,500	253,492	262,951	149,229	97,684
Taylor.....				1,747		5,302
Upshur.....				2,100	4,010	
Totals.....	2,276,451	2,738,777	3,534,314	3,828,649	2,978,263	3,096,561

TABLE SHOWING THE COAL PRODUCTION BY COUNTIES, FROM 1888 TO 1897 INCLUSIVE.

(Tons of 2,240 pounds)

COUNTIES.	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897
Barbour							7,735			31,658
Brooke	17,108	19,203	32,857	33,999	35,046	29,375	32,445		49,623	42,108
Fayette	1,522,430	989,276	1,302,355	1,737,617	1,564,549	2,350,250	1,195,102		3,253,547	2,903,031
Hancock										33,838
Harrison	113,030	111,440	128,964	113,268	142,960	248,099	275,297	204,442	155,772	221,249
Kanawha	982,310	976,306	1,021,386	1,209,383	1,175,371	1,210,749	1,143,626	1,078,253	1,088,737	1,012,745
Logan							52,673	40,610		
Marion	253,675	245,899	403,900	722,594	903,896	458,293	1,186,342	1,198,336	1,219,017	1,308,682
Marshall	59,172	84,606	110,418	118,242	166,893	110,530	84,037	137,762	148,128	162,306
Mason	85,870	126,797	129,744	116,598	123,323	141,104	92,764	171,074	101,418	111,535
McDowell		245,760	504,222	704,871	1,100,882	1,876,838	2,340,581	2,240,551	2,836,013	2,617,917
Mercer	762,645	744,803	744,403	1,210,723	1,175,141	1,196,574	886,942	835,379	1,308,417	873,300
Mitrel	468,618	433,365	512,217	623,067	473,862	537,488	489,808	614,780	554,492	537,169
Mingo		6,850						95,279	111,800	297,789
Monongalia		159,664	28,000	46,100	70,062	97,905	62,125	47,653	52,080	31,288
Ohio	137,678	147,290	92,487	80,738	82,534	48,681	49,821	88,691	122,105	95,578
Preston		134,925	159,320	134,467	82,080	105,618	39,936	52,385	116,361	120,211
Putnam	135,100	107,325	183,184	156,856	154,962	197,733	148,474	122,057	161,555	131,522
Raleigh							48,565	84,762	89,279	63,701
Randolph						937				
Taylor	66,439	177,901	68,403	83,851	74,000	68,928	72,229	86,536	43,469	178,397
Tucker	48,256	79,647	219,087	189,050	369,320	538,950	418,805	316,345	523,624	647,666
Wayne					55,920	21,839	40,729	21,101	2,000	
Small Mines									125,000	133,929
Totals	4,799,611	4,603,857	5,643,946	7,281,427	7,777,570	9,758,991	9,427,028	9,878,089	12,062,468	11,705,829

TABLE SHOWING THE COAL PRODUCTION BY COUNTIES, FROM 1898 TO 1909 INCLUSIVE.

(Tons of 2,240 lbs.)

COUNTIES.	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Barbour	48,690	63,275	73,041	226,047	394,768	525,924	690,897	556,158	638,253	776,245	829,046	735,033
Brooke	56,733	63,176	61,386	65,904	55,857	24,206	37,804	183,803	378,312	526,997	438,284	449,054
Braxton										55,774	91,763	93,024
Boone											3,451	3,451
Clay							2,860	60,455	66,087	60,252	42,461	25,797
Fayette						4,075,324	5,650,217	6,738,343	7,025,839	7,277,297	6,831,271	7,587,747
Grant						28,489	113,980	167,053	228,837	271,542	242,442	177,463
Gilmer										312	6,697	14,740
Greenbrier												32,265
Hancock	42,870	39,440	47,013	30,357	38,685	70,495	69,700	58,029	53,557	78,280	65,511	46,753
Harrison	271,554	413,150	647,430	1,088,715	1,682,144	2,108,336	2,445,202	2,560,905	3,030,737	3,343,319	3,168,042	3,005,689
Kanawha	1,213,110	1,293,068	1,456,890	1,727,115	1,863,386	1,578,752	2,792,078	3,126,638	4,080,102	4,023,101	4,523,739	4,133,213
Lincoln					12,053	58,330	31,744	7,685	13,801	17,589	25,004	49,954
Lewis										5,328	22,640	13,780
Logan										740,607	1,215,020	1,909,033
Marion	1,639,625	2,392,983	2,925,907	2,674,553	3,172,194	2,638,914	2,785,350	3,251,999	3,629,805	3,619,704	3,440,655	3,733,765
Marshall	165,874	253,800	242,176	199,633	201,179	279,276	345,273	380,666	411,031	530,437	3,391,189	223,848
Mason	109,204	108,867	85,367	113,527	113,527	102,282	89,009	77,846	108,420	93,214	103,738	103,802
McDowell	3,183,520	3,516,668	4,142,102	4,219,251	4,734,199	5,249,913	5,524,376	6,810,730	7,806,524	8,123,689	8,515,680	9,415,040
Mercer	1,046,379	1,144,258	1,046,937	1,032,153	1,024,530	1,274,002	1,274,002	1,738,530	2,023,430	2,009,522	1,823,674	2,103,263
Mineral	510,757	554,286	562,627	513,772	532,181	514,582	467,613	505,171	540,147	607,172	622,205	745,658
Mingo	383,280	350,294	406,695	501,410	635,113	864,464	1,153,013	1,375,233	1,719,233	1,867,100	1,714,807	1,617,581
Monongalia	68,867	58,793	82,148	75,589	130,371	148,074	194,540	178,752	193,074	292,363	271,843	235,816
Nicholas					12,199	7,645	23,723	51,524	39,321	57,412	61,806	40,353
Ohio	96,912	119,960	96,610	115,830	148,852	129,888	101,207	91,732	101,788	136,350	113,698	158,327
Preston	169,044	277,173	403,610	434,713	449,528	574,741	689,139	651,122	827,772	1,079,692	874,786	654,333
Putnam	128,851	163,004	203,449	125,321	208,712	178,904	265,914	310,576	465,341	401,413	424,424	378,429
Raleigh	79,315	93,370	68,300	102,089	272,106	244,088	406,226	661,180	823,656	1,104,676	1,230,420	1,737,812
Randolph	31,975	103,207	107,883	107,883	265,687	388,487	356,531	416,834	539,433	609,380	545,803	437,420
Taylor	109,532	249,103	376,030	383,223	415,502	234,524	234,502	252,161	389,563	416,138	355,358	437,633
Tucker	831,497	490,038	1,098,874	938,304	1,011,435	1,078,997	1,037,758	961,293	1,057,800	1,005,219	920,548	1,005,580
Upshur										39,502	76,773	60,580
Wayne										25,217	35,756	31,619
Worming												
Small Mines	140,000	150,000	150,000	175,000	180,000	180,000	170,000	180,000	180,000	180,000	180,000	180,000
Totals.	14,294,865	16,250,150	18,886,911	20,290,991	23,359,083	22,913,698	26,984,715	31,503,029	37,403,474	40,040,311	39,367,040	41,083,766

ORDER IN THE PRODUCTION OF COAL. 1897-1909.

COUNTIES.	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Fayette	1	1	1	1	1	1	2	1	2	2	2	2	2
McDowell	2	2	2	2	2	2	1	2	1	2	1	1	1
Marion	3	3	3	3	3	3	3	4	3	4	4	4	4
Kanawha	4	4	4	4	4	4	5	3	4	3	3	3	3
Mercer	5	5	5	6	6	6	6	6	6	6	6	6	6
Harrison	9	9	8	7	5	5	4	5	5	5	5	5	5
Tucker	6	6	7	5	7	7	7	8	8	8	10	10	10
Mingo	8	8	9	9	9	8	8	7	7	7	7	7	9
Mineral	7	7	6	8	8	9	11	11	12	13	14	13	11
Preston	13	11	10	10	10	10	9	10	10	9	9	11	13
Taylor	10	10	11	11	11	11	14	16	16	16	17	17	16
Marshall	11	12	12	12	13	16	13	14	14	15	15	18	19
Randolph				14	14	14	12	13	13	12	13	14	14
Barbour	19	19	17	18	12	12	10	9	11	11	11	12	12
Raleigh	16	16	16	19	17	13	15	12	9	10	8	8	8
Putnam	12	13	13	13	15	15	16	15	15	14	18	16	17
Ohio	15	15	14	15	16	17	18	19	21	22	21	21	21
Brooke	17	18	18	20	20	20	23	22	17	17	16	15	15
Mason	14	14	15	16	18	19	19	20	22	21	22	22	22
Grant							22	18	19	19	20	20	20
Logan									20	18	12	9	7
Monongalia	20	17	19	17	19	18	17	17	18	20	19	19	18
Hancock	18	20	20	21	21	21	20	21	24	24	23	25	26
Clay								25	23	23	24	27	30
Nicholas						22	24	24	25	25	25	26	27
Lincoln						23	21	23	27	26	30	30	25
Braxton											26	23	23
Wayne									26	27	29	29	28
Upshur										28	27	24	24
Greenbrier											31	28	29
Lewis											28	31	32
Gilmer											32	32	31
Wyoming												33	34
Boone													33

TABLE SHOWING THE COMPARATIVE STATEMENT OF THE COAL PRODUCTION FOR 1909 AND 1908.

(Tons of 2,240 lbs.)

COUNTY	Coal Production for		Increase of 1906 over 1909	Decrease of 1909 over 1908
	1909	1908		
Brooke	449,647	458,284		8,637
Hancock	46,756	66,511		19,755
Marion	3,733,765	3,440,666	293,099	
Marshall	233,848	369,189		135,341
Ohio	158,327	143,698	14,629	
Harrison	3,005,689	3,168,042		162,353
Lewis	13,780	22,640		8,860
Upshur	60,589	76,773		16,184
Barbour	735,033	829,046		94,013
Monongalia	235,816	271,843		36,027
Preston	654,333	874,786		220,453
Taylor	437,633	396,358	41,275	
Grant	177,406	242,442		65,036
Mineral	745,658	622,295	123,363	
Randolph	463,206	545,803		82,597
Tucker	1,005,873	920,568	85,305	
Braxton	93,024	91,763	1,261	
Gilmer	14,740	6,697	8,043	
Mason	106,802	109,738		2,936
Putnam	378,420	424,424		46,004
Clay	25,797	42,461		16,664
Fayette	7,597,747	6,851,271	746,476	
Kanawha	4,136,213	4,523,739		387,526
Boone	3,451		3,451	
Nicholas	40,556	61,806		21,250
Greenbrier	32,296	36,066		3,770
Raleigh	1,797,812	1,259,420	538,392	
Mercer	2,103,263	1,823,674	279,589	
McDowell	9,415,069	8,515,689	899,380	
Wyoming		652		652
Lincoln	49,954	25,064	24,890	
Logan	1,909,063	1,215,039	694,024	
Mingo	1,617,581	1,714,807		97,226
Wayne	34,619	35,756		1,137
Totals	41,513,766	39,187,010	3,753,177	1,426,421
Small Mines	180,000	180,000		
Grand Total	41,693,766	39,367,010	3,753,177	1,426,421

ORDER IN THE PRODUCTION OF COAL AND COKE BY COUNTIES FOR THE YEAR ENDING JUNE 30th, 1909.

COUNTY.	Number of Mines Producing Coal.	Production of Coal. (Tons of 2,240 lbs.)			Production of Coke. (Tons of 2,000 lbs.)			Order in Production.	
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for year.	1st 6 Mos.	2nd 6 Mos.	Total for the year.	Coal.	Coke.
Brooke	6	238,142	211,505	449,647				15	
Hancock	2	27,084	19,002	46,756				26	
Marion	26	1,437,380	1,796,376	3,733,755	28,040	37,173	65,213	26	8
Marshall	6	112,573	121,573	233,848				19	
Ohio	7	73,228	85,090	158,327				21	
Harrison	56	1,053,539	1,352,130	3,005,689		275	275	5	11
Lewis	1	6,890	6,890	13,780				32	
Lewis	1	31,571	29,018	60,589				24	
Unshur	15	389,531	345,502	735,033	17,424	9,779	27,203	12	9
Barbour	8	97,270	138,546	235,816	38,089	78,555	117,254	18	6
Monongalia	17	321,385	332,998	654,333	84,842	91,073	175,915	13	4
Preston	10	223,538	214,065	437,633	2,218	3,084	5,302	16	10
Taylor	3	96,047	81,350	177,406				20	
Grant	22	357,065	388,593	745,658				11	
Mineral	7	236,240	226,946	463,206	60,021	80,581	149,602	14	5
Randolph	13	507,510	498,363	1,005,873	58,078	58,262	116,940	10	7
Tucker	2	54,722	38,302	93,024				23	
Braxton	1	1,340	13,400	14,740				31	
Glimer	7	60,199	46,603	106,802				22	
Mason	10	182,809	195,611	378,420				17	
Putnam	2	5,089	20,708	25,797				30	
Clay	130	3,808,257	3,789,490	7,597,747	240,324	273,048	513,572	2	2
Payette	109	2,036,884	2,009,329	4,136,213				3	
Kanawha	4		3,451	3,451				33	
Boone	5	19,533	21,023	40,556				27	
Nicholas	1	17,389	14,907	32,296				29	
Greenbrier	34	828,550	989,262	1,797,812				8	
Raleigh	30	1,001,641	1,041,622	2,103,263	92,027	128,619	220,646	6	3
Mercer	109	4,567,800	4,307,269	9,415,069	792,291	941,238	1,733,529	1	1
McDowell	3	21,376	28,578	49,954				25	
Lincoln	23	915,503	963,560	1,909,063				7	
Logan	32	815,701	801,880	1,617,581				9	
Mingo	1	16,617	18,002	34,619				28	
Wayne									
Totals	706	20,662,774	20,850,992	41,513,766	1,415,039	1,710,412	3,125,451		
Small mines		90,000	90,000	180,000					
Grand Totals	706	20,752,774	20,940,992	41,693,766	1,415,039	1,710,412	3,125,451		

COUNTY	Prod. of Coal (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)			Prod. of Coke (Tons of 2,000 lbs.)			Acres of Coal Worked out.
	1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for year.	Used in Operation of Mine.	Furnished Local Trade and Tenants	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the year.
Brooke	238,142	211,505	449,647	4,866	10,448	.....	434,333	.....	.....	82.11
Hancock	27,694	19,062	46,756	1,066	1,044	.....	44,646	.....	.....	10.66
Marion	1,937,389	1,706,376	3,643,765	61,377	12,421	99,489	3,560,498	28,040	37,173	65,213
Marshall	112,275	121,573	233,848	1,371	9,716	.....	222,761	.....	.....	35.35
Ohio	73,228	85,099	158,327	821	8,590	50,685	98,221	275	.....	26.50
Harrison	1,653,559	1,352,130	3,005,689	30,088	9,939	416	2,965,246	.....	.....	335.48
Lewis	6,890	6,890	13,780	.....	446	.....	12,888	.....	.....	2.04
Upshur	31,571	29,018	60,589	1,655	913	.....	58,021	.....	.....	13.62
Barbour	389,531	345,502	735,033	12,329	3,800	40,077	678,257	17,424	9,779	27,203
Monongalia	97,270	138,546	235,816	6,271	1,534	145,425	82,586	38,689	78,555	47.04
Preston	321,385	332,938	654,323	21,806	5,698	248,039	378,790	84,842	117,915	141.28
Taylor	223,538	214,095	437,633	3,086	1,670	7,892	424,985	2,218	3,084	5,302
Grant	90,047	81,359	171,406	11,297	911	.....	165,198	.....	.....	56.53
Mineral	357,065	388,993	745,058	2,449	2,085	.....	740,514	.....	.....	106.73
Randolph	236,290	226,946	463,236	7,531	2,279	103,119	290,277	60,021	80,581	50.98
Tucker	507,510	498,363	1,005,873	27,749	6,030	175,740	796,354	58,678	58,292	132.29
Braxton	54,722	38,302	93,024	802	725	.....	91,497	.....	.....	13.07
Gilmer	1,340	13,400	14,740	68	84	.....	14,588	.....	.....	1.81
Mason	60,199	48,603	108,802	2,569	6,593	.....	97,640	.....	.....	15.16
Pulnam	182,809	105,611	288,420	3,414	10,992	.....	304,014	.....	.....	57.03
Clay	5,089	20,708	25,797	575	1,800	.....	25,422	.....	.....	6.35
Fayette	3,808,257	3,789,490	7,597,747	156,085	64,960	802,811	6,573,891	240,324	273,048	513,572
Kanawha	2,036,884	2,069,329	4,106,213	63,247	55,714	.....	4,017,252	.....	.....	1,290.22
Boone	3,451	3,451	6,902	.....	205	.....	3,246	.....	.....	685.60
Nicholas	19,533	21,023	40,556	1,085	1,627	.....	37,844	.....	.....	55
Greenbrier	17,389	14,907	32,296	774	.....	.....	31,522	.....	.....	9.24
Raleigh	828,550	983,262	1,811,812	43,070	17,786	.....	1,736,956	.....	.....	67.73
Mercer	1,061,641	1,041,622	2,103,263	32,006	15,486	347,546	1,708,225	92,027	128,619	399.66
McDowell	4,507,800	4,497,298	9,004,098	199,438	87,146	2,565,676	6,362,809	792,291	941,238	234.11
Lincoln	21,376	28,578	49,954	1,338	2,453	.....	46,163	.....	.....	1,733.529
Logan	915,503	993,500	1,909,003	15,400	15,279	.....	1,878,384	.....	.....	7.02
Mingo	815,701	801,880	1,617,581	37,906	20,879	.....	1,558,796	.....	.....	272.73
Wayne	16,617	18,002	34,619	.....	567	.....	34,052	.....	.....	244.17
Totals	20,662,774	20,850,992	41,513,766	751,985	380,430	4,646,905	35,734,446	1,415,039	1,710,412	3,125,451
Small Mines	90,000	90,000	180,000	.....	.....	.....	180,000	.....	.....	6,608.00
1909 Grand Totals	20,752,774	20,940,992	41,693,766	751,985	380,430	4,646,905	41,693,766	1,415,039	1,710,412	3,125,451
1908 Grand Totals	22,639,394	16,727,616	39,367,010	722,826	608,134	4,520,273	33,514,777	1,837,173	1,141,080	2,978,263
Changes	± 1,886,620	* 4,213,376	* 2,326,756	* 29,159	± 227,704	* 126,632	* 8,178,989	± 422,134	* 569,322	* 147,188

* Increase of 1909 over 1908

± Decrease of 1909 under 1908.

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)						
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.		
Brooke County.													
A. Gilchrist & Sons' Co	Gilchrist	4,114	10,797	14,911		4,861		10,050					
La Belle Coal Co.	Lewis No. 1	33,308	20,518	53,826		2,767		51,059					
Beech Bottom Coal Co.	Beech Bottom	55,275	38,349	93,624		2,205		91,419					
Lewis-Findley Coal Co	Locust Grove	57,406	44,815	102,221	2,726	35		99,460					
La Belle Iron Works	La Belle Shaft	63,719	74,705	140,424	1,606			138,818					
Rex Carbon Coal Co	Rex No. 1	22,320	22,321	44,641	534	580		43,527					
Totals		238,142	211,505	449,647	4,866	10,448		434,333					
Hancock County.													
The Marquet Coal Co.	No. 4	22,368	15,558	37,926	1,066	1,044		35,816					
The Marquet Coal Co	No. 5	5,326	3,504	8,830				8,830					
Totals		27,694	19,062	46,756	1,066	1,044		44,646					
Marion County.													
Fairmont Coal Co.	Murray	38,774	29,066	67,840	2,625	170	141	64,904	95		95		
Fairmont Coal Co.	Montana	90,194	68,895	159,089	4,042	861	4,653	149,533	3,121	6	3,127		
Fairmont Coal Co	Shaft	106,405	81,267	187,672	6,939	1,024		179,739					
Fairmont Coal Co.	New England	102,172	78,521	180,693	7,106	1,550		172,028					
Fairmont Coal Co.	Gaston	84,816	64,217	149,033	4,691	516	336	144,000	222		222		
Fairmont Coal Co.	Monongah No. 2	71,339	60,501	131,840	2,509	1,646	14,449	113,236	4,231	5,306	9,537		
Fairmont Coal Co.	Monongah No. 6	90,060	99,088	189,148	3,837	14	24,532	169,765	137	13,175	13,312		
Fairmont Coal Co.	Monongah No. 3	185	29,831	30,016	132			29,884					
Fairmont Coal Co.	Monongah No. 8	124,116	106,011	230,127	2,366	22	15,963	211,776	4,830	4,847	9,677		
Fairmont Coal Co.	Shaver	92,195	73,325	165,520	300			165,130					
Fairmont Coal Co.	Pennols	85,724	92,755	178,479	842	611		176,996					
Fairmont Coal Co.	Anderson	57,190	37,027	94,217	1,872	92	41	92,212	27		27		
Fairmont Coal Co.	Highland	86,565	72,725	159,290	230	198	437	158,395	308		308		
Fairmont Coal Co.	Middleton	76,525	64,532	141,057	453	105	745	139,752	360	132	492		
Fairmont Coal Co.	Fairmont	90,744	63,919	154,663	1,304	236	147	152,776	97		97		
Fairmont Coal Co.	Chifton	42,520	35,182	77,702	1,201	454	41	760,006	4,900	7,912	12,812		
Fairmont Coal Co.	Hutchinson	210,808	217,311	428,119	1,800	276	19,219	403,824	4,900				
George's Creek Coal & Iron Co.	Chatham Shaft No. 1	148,826	267,142	415,968	950	950		255,435					
New Central Coal Co	Stafford	116,316	129,920	246,236	8,747	1,026		258,838					
Federal Coal & Coke Co	Federal N ^o . 1	137,825	129,920	267,745	7,881	2,000		253,862	9,685	3,795	13,480		
The Va. & Pitts. C. & C. Co.	Kingmont	164,736	180,391	345,127	800	2,000		323,362					
Parker Run Coal & Coke Co.	Parker Run	15,295	9,084	24,379	1,244	130		23,005					

Harry B. Coal Co.	26,305	29,421	55,726	114	55,612	114	55,612
Kilarn Coal & Coke Co.	7,856	10,130	17,986	264	17,505	127	17,505
Pittsburg Steam Coal Co.	9,724	9,993	19,717		19,717		19,717
Calawba Coal Co.		3,408	3,408		3,408		3,408
Dakota Coal & Coke Co.	1,000	1,000	1,000	500	250		250
Totals	1,937,389	1,796,376	3,733,765	61,377	3,569,498	28,040	65,213
<i>Marshall County:</i>							
Hitchman Coal & Coke Co.	65,190	66,820	132,049		126,973		126,973
Boggs Run Mining & M. T. & Co.	4,863	2,375	7,238	170	6,500	5,976	5,976
Wheeling Steel & Iron Co.	27,556	29,497	57,053		57,053	550	57,053
Glendale Coal Co.	3,613	3,689	7,302		5,517	1,785	5,517
Mound Coal Co.	8,036	13,393	21,429		21,429		21,429
Bituminous No. 1	3,017	5,769	8,777	1,192	6,180	1,465	6,180
Totals	112,275	121,573	223,848	1,371	222,761		222,761
<i>Ohio County:</i>							
Richland Coal Co.	42,857	46,428	89,285		89,285		89,285
Elm Grove Coal Co.	1,167	9,026	10,193	713	8,936		8,936
Whitaker-Glessner Co.	16,110	17,145	33,255			544	
Reynann Brewing Co.	3,751	3,234	7,045				
J. S. Creighton	2,054	1,192	3,246				
Peter Storch & Sons	2,400	2,400	4,800			3,246	
La Belle Iron Works	4,889	5,614	10,503	108		4,800	
Totals	73,228	85,099	158,327	821	49,821	50,465	49,821
<i>Harrison County:</i>							
Clarksburg Fuel Co.	25,561	22,193	47,754		47,025		47,025
Clarksburg Fuel Co.	110,521	84,445	194,966		192,279		192,279
Clarksburg Fuel Co.	31,864	31,082	62,976	1,622	61,481		61,481
O'Neill	6,720	4,257	10,977	145	10,876		10,876
Dixie	36,742	28,210	64,952	1,008	63,035		63,035
Two Dick	25,633	20,508	46,141	273	44,608		44,608
Interstate	5,306	6,336	11,732	108	11,535		11,535
Despard	101,085	70,436	172,121	4,746	165,943	275	275
Enterprise	36,413	37,389	73,802	201	73,601	275	73,601
Viropa	23,583	50,423	73,007	107	49,255		49,255
Fairmont Coal Co.	38,211	30,911	69,122	580	67,642		67,642
Riverdale	22,188	22,188	50,258	66	48,992		48,992
Ehlen	58,444	46,008	104,512	3,900	100,000		100,000
Solon	32,076	33,034	65,010	949	64,539		64,539
Gypsy	16,134	35,528	51,662		33,257		33,257
Meadowbrook	30,642	25,637	56,279	40	56,073		56,073
Globe	27,385	27,385	54,770	100	54,701		54,701
Dunham	63,758	34,296	98,024	1,255	96,055		96,055
Ocean				1,691			
Columbia							

*Used in Brewery.

u Used in mill.

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)		Production of Coke (Tons of 2,000 lbs.)					
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Op-eration of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quan-tity Shipped from Mine.	1st 5 Mos.	2nd 6 Mos.	Total for the Year.
<i>Harrison County—Con't.</i>											
Fairmont Coal Co.	Robinson Run	14,157	12,026	26,183	20	86		26,077			
Fairmont Coal Co.	Reynoldsville	7,439	3,988	11,427	252	93		11,082			
Fairmont Coal Co.	Lynch	5,691	3,708	9,399		46		9,353			
Fairmont Coal Co.	West Fork	6,352	5,007	11,359	10	42		11,307			
Pittsburg & Fairmont Fuel Co.	Perry	49,213	44,944	94,157				94,157			
Pittsburg & Fairmont Fuel Co.	Coalring Station	20,145	17,961	38,106				38,106			
Pittsburg & Fairmont Fuel Co.	Pooz	27,471	23,440	50,911				49,779			
Pittsburg & Fairmont Fuel Co.	Lucas	21,720	18,481	40,201				40,201			
Virginia-Maryland Coal Corp.	Willard No. 1	30,130	57,417	87,547		100		87,447			
Cook Coal & Coke Co.	No. 2 at Girard No. 1	46,015	40,852	86,867	1,404			85,463			
Corona Coal & Coke Co.	Harold	41,964	36,899	78,863		200		78,663			
Central Fairmont Coal Co.	Snake Hill	23,993	25,685	52,678				52,678			
Vincent Coal Co.	Grasselli	25,123	27,858	52,981		53		52,928			
Haywood Coal Mining Co.	Monroe	8,400	11,300	19,700				19,700			
Meadowbrook Coal & Coke Co.	Erie	78,295	60,472	138,767	1,754	649		136,364			
Harrison County Coal Co.	Overholt	939	4,870	5,829				5,829			
W. B. Guntion Coal Co.	Phoenix		2,700	2,700				2,700			
Lambert Run Coal Co.	Clauston		8,040	14,395				14,395			
Hero Coal & Coke Co.	Illico		10,300	24,000				24,000			
Blue Ridge Coal Co.	Thompson	13,766	15,000	30,000				30,000			
Rosebud Coal Co.	Rosebud	12,223	4,250	16,483	40	75		16,368			
Monroe Colliery Co.	Sylvester	26,452	26,796	53,248				53,248			
National Coal Co.	National	10,000	12,000	22,000	100	150		21,750			
Fayette Coal Co.	Girard No. 2	9,558	11,054	20,612	5	35		20,572			
Short Line Coal Co.	Fairmore	30,502	20,640	60,142	533	498		59,111			
Fairmont & Baltimore Coal Co.	Goff	37,639	25,598	63,228				63,228			
Madeira-Hill-Clark Coal Co.	Waldo	17,817	16,796	34,613				34,613			
Madeira-Hill-Clark Coal Co.	New Chief & Randolph	63,923	37,115	101,038		584		100,454			
Southwestern Coal Co.	Miller No. 1	45,140	36,574	81,714		290		81,434			
Washington Fuel Co.	Miller Nos. 1 and 2	1,600	5,722	7,322	20	15		7,287			
O'Gara Coal Mining Co.	O'Gara	1,600	1,600	1,600	15	20		1,565			
Pitcairn Coal Co.	Pitcairn	28,454	30,824	59,278				59,278			
Marshall Coal Co.	Marshall	63,070	18,223	81,303	1,416	535		79,352			
Cook & Hart Coal Co.	Cook	57,874	21,500	79,374	1,813	336		77,225			
Hutchinson Fuel & Supply Co.	Hutchinson	8,738	6,393	15,131				15,131			
		79,834	72,675	152,509				152,509			
Totals		1,053,559	1,352,130	3,005,689	30,088	9,939	416	2,965,246	275		275

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Total Coal Produced for Year.	Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)			
		1st 6 Mos.	2nd 6 Mos.		Used in Op-eration of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quant-ity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.
<i>Preston County.</i>											
White Coal & Coke Co.	Dixie	3,000	1,200	4,200							
Our Coal & Coke Co.	Vulcan	29,871	19,122	48,993	508	152	10,276	38,037	4,907	6,851	
Manufacturers Coal & Coke Co.	Victoria No. 2	8,278		8,278	600			7,678			
Elkins Coal & Coke Co.	Bretz or No. 2	46,965	4,898	51,863	6,067	215	36,900	8,021	1,759	27,198	
Elkins Coal & Coke Co.	No. 4	45,612	46,965	92,577	1,425	183		90,969			
Elkins Coal & Coke Co.	No. 6	22,988	38,570	61,558	3,148	389	47,137	10,874	7,851	23,304	
Preston County Coke Co.	Cascade	28,768	42,775	71,543	789	500	70,254	20,711	32,206	31,155	
Totals		321,385	332,938	654,323	21,806	5,088	248,039	378,790	84,842	175,915	
<i>Taylor County.</i>											
Grafton Coal & Coke Co.	Sand Lick	25,000	40,000	75,000				74,500			
Philipsvorn Coal Co.	Flemington.	17,098	16,283	33,381				33,839			
T. B. Davis	New York	16,691	10,844	27,535				27,535			
McGraw Coal Co.	Rosemont	14,788	25,320	40,117	702	231		39,184			
Maryland Coal Co.	Wendell 1, 2, 3, 4 & 5	83,387	76,653	160,040	352	368		159,540			
Winona Coal & Coke Co.	No. 1	35,218	23,771	58,989	1,440	286		57,253			
Winona Coal & Coke Co.	No. 2	4,870	5,355	10,225	545	133	7,892	1,653	2,218	5,302	
Johnson Bros' Coal Co.	Cecil	4,512	894	5,406				5,406			
Harrison Coal Co.	Harrison	11,174	14,308	25,482	67			501			
Totals		223,538	214,065	437,603	3,086	1,070	7,892	424,985	2,218	3,084	5,302
<i>Grant County.</i>											
Davis Coal & Coke Co.	Henry No. 22	90,665	74,330	164,995	11,134	724		153,137			
Buffalo Cr & Cumberland C. Co.	Buffalo Creek	4,624	6,920	11,544	143	187		11,401			
Cottage Street Coal Co.	Cottage Street	758	160	918	20			660			
Totals		96,047	81,350	177,406	11,297	911		165,198			
<i>Mineral County.</i>											
Davis Coal & Coke Co.	No. 6	34,087	31,000	65,777	180	920		64,677			
Davis Coal & Coke Co.	No. 9	113,789	100,361	214,140		581		213,565			
Davis Coal & Coke Co.	Tyson No. 10	33,308	29,579	62,887		34		62,853			
Davis Coal & Coke Co.	Kittanning No. 14	32,008	35,229	67,237		247		67,080			
Davis Coal & Coke Co.	Kittanning No. 15	5,027	11,591	16,618		52		11,539			
Davis Coal & Coke Co.	OTT No. 20	18,323	20,491	38,814				38,814			

Davis Coal & Coke Co.	Montgomery Run No. 19	24,703	42,243	65,946	229	66,717
Davis Coal & Coke Co.	No. 50	8,061	13,563	21,654	80	20,787
Davis Coal & Coke Co.	No. 51	14,024	19,488	33,512	213	33,216
Abrams Crk & Coke Co.	Oakmont	10,235	21,092	31,327	139	30,703
Piedmont & Potomac Coal Co.	Karr	4,775	604	5,439		5,439
Masteller Coal Co.	Hampshire	14,759	13,723	28,482	55	28,427
Masteller Coal Co.	New Creek	77	1,575	1,652		1,652
Smith Coal Co.	Smith	7,959	18,294	26,253	180	26,103
Western Maryland Coal Co.	Blaine 2, 3 & 4	5,200	5,201	10,401	25	10,376
Gleason Coal & Coke Co.	Gleason No. 2	22,000	20,000	42,000	250	41,250
Big Vein Coal Co. of W. Va.	Four Foot	2,544	6,355	8,899	38	8,861
Denman Coal Co.	Denman No. 3	734	871	1,645		1,645
Glade Run Coal & Coke Co.	Sarah	3,200	2,150	5,350	69	5,281
Emory Run Coal Co.	Emory Run No. 1	1,506		1,506		1,506
Totals		357,065	388,503	745,658	2,449	740,514
<i>Randolph County.</i>					2,685	
Davis Coal & Coke Co.	Weaver No. 1	45,165	56,251	101,416	428	108,232
Davis Coal & Coke Co.	Weaver No. 2	33,888	45,295	79,183	683	57,907
Davis Colliery Co.	Coalton No. 1	77,346	72,693	151,039	958	77,446
Davis Colliery Co.	Sivad No. 2	7,800	7,800	7,800	100	7,628
Davis Colliery Co.	Harding No. 3	61,747	43,694	105,441	731	60,875
Davis Colliery Co.	Harding No. 5	4,850	4,549	9,399		9,399
W. H. Green (lessee)	Klondyke	4,464	4,464	8,928	88	8,750
Totals		236,200	226,946	463,206	2,279	230,277
<i>Tucker County.</i>						
Cumberland Coal Co.	Douglas No. 1	23,608	20,878	44,486		44,276
Cumberland Coal Co.	Douglas Nos. 4 & 5	47,217	41,757	88,974	216	78,725
Davis Coal & Coke Co.	Thomas No. 23 and Pendleton Run					
Davis Coal & Coke Co.	Thomas No. 25	114,873	119,440	234,313	2,768	188,431
Davis Coal & Coke Co.	Coketon No. 26	79,203	67,638	146,841	5,122	141,719
Davis Coal & Coke Co.	Thomas No. 34	32,480	31,355	64,415	1,797	62,618
Davis Coal & Coke Co.	Coketon No. 35	40,013	56,122	96,135		16,837
Davis Coal & Coke Co.	Coketon No. 36	29,166	23,783	52,949	7,228	25,616
Davis Coal & Coke Co.	Coketon No. 37	78,424	74,783	153,207		19,494
Davis Coal & Coke Co.	Coketon No. 38	57,513	61,124	118,637		75,740
Beacon Coal & Coke Co.	Beacon	3,208		3,208	89	42,897
Gatzmer Coal & Coke Co.	Gatzmer No. 1	1,805	903	2,708	1,160	3,107
Totals		507,510	498,363	1,005,873	6,030	736,354
<i>Braxton County.</i>						
Davis Colliery Co.	Bower No. 10	47,915	32,622	80,537	584	79,219
Davis Colliery Co.	Bower No. 11	6,807	5,680	12,487	141	12,278
Totals		54,722	38,302	93,024	725	91,497

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)				
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Operation of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.
<i>Gilmer County.</i>											
Cosmopolitan Coal & Coke Co.	Gilmer	1,340	13,400	14,740	68	84		14,588			
Totals		1,340	13,400	14,740	68	84		14,588			
<i>Mason County.</i>											
Mason City Coal Mining Co.	Klondike and Linden	28,255	19,227	47,482		1,288		46,204			
Consumers' Coal & Mining Co.	Camden	4,392	2,578	6,970	856	4,686		1,428			
Beech Grove Coal Co.	Beech Grove	6,726	1,584	8,284		89		8,195			
The Liverpool Salt & Coal Co.	Jackson	9,633	6,684	15,717				15,717			
Blackford Coal & Mining Co.	Hartford	10,000	15,089	25,089	1,496	244		23,239			
Dixie Coal Works.	Dixie	1,793	1,457	3,250	107	286		2,857			
Totals		60,199	46,603	106,802	2,569	6,593		97,640			
<i>Putnam County.</i>											
Plymouth Coal & Mining Co.	Plymouth	1,858	2,628	4,486				4,486			
Plymouth Coal & Mining Co.	Manilla	26,443	27,865	54,308	1,573	1,070		51,665			
Plymouth Coal & Mining Co.	California	27,578	28,937	56,515	1,572	1,070		53,873			
Alpha Coal Mining Co.	Alpha	893	893	1,786	72			1,714			
The Otto Marmet C. & Min. Co.	Big Otto Nos. 1, 2 & 3	70,312	79,140	149,452		1,317		148,135			
Black Betsy Coal & Mining Co.	Nos. 1 and 2	53,092	53,791	106,883		7,142		99,741			
Oak Forest Coal & Mining Co.	Oak Forest	2,633	2,357	4,990	197	393		4,400			
Totals		182,809	195,611	378,420	3,414	10,992		364,014			
<i>Clay County.</i>											
Elk River Coal & Lumber Co.	Dunbar	2,857	18,476	21,333	575	1,800		18,958			
Carter Coal Co.	Carter	2,232	2,232	4,464				4,464			
Totals		5,089	20,708	25,797	575	1,800		23,422			
<i>Fayette County.</i>											
Sunday Creek Co.	No. 111	98,404	65,823	164,227	2,906	1,084		98,261	22,057	18,950	41,007
Sunday Creek Co.	No. 112	98,703	75,635	174,398	4,520	1,562		102,625	33,414	23,286	56,680
Sunday Creek Co.	No. 114	68,908	29,975	98,973	4,223	1,345		93,405	31,171	24,271	55,442
Sunday Creek Co.	No. 115	112,355	80,045	192,400	987	982		113,048	14,314	17,368	31,682
The Columbus Iron & Steel Co.	No. 1	50,462	54,348	104,810	1,686	705		52,714			

Kanawha Gas Coal Co.	Kanawha Gas	19,107	16,340	35,447	579	34,868
Kanawha Gas Coal Co.	Oakdale	3,652	1,785	5,447		5,447
W. R. Johnson & Co.		22,320	20,534	42,854	2,142	40,712
Boomer Coal & Coke Co.	No. 1	27,250	28,660	55,910	206	55,708
Boomer Coal & Coke Co.	No. 2, North	117,811	95,750	213,570	292	213,072
Boomer Coal & Coke Co.	No. 2, South	103,762	87,832	191,594	1,672	184,410
Boomer Coal & Coke Co.	No. 3	122,910	39,806	162,716	47	162,300
Paint Creek Collieries Co.	Utterbury Camp	21,670	15,003	36,673	130	35,805
Eureka Colliery Co.	Eureka No. 13	2,542	100	2,642		2,597
Eureka Colliery Co.	Eureka No. 14	25,811	5,436	31,247	342	30,250
W. R. Johnson	Eagle No. 1	5,520	4,768	10,288		10,030
W. R. Johnson	Splint No. 5	6,761	7,211	13,972	848	12,974
W. R. Johnson	Splint No. 6	3,807	3,807	6,987		6,987
Mecca Coal & Coke Co.	Mecca No. 2	20,490	20,615	47,105	478	46,627
Mecca Coal & Coke Co.	Mecca No. 5	19,196	22,156	41,352		40,370
The Carver Brothers Co.	Mecca No. 5	20,401	20,060	40,461	401	40,060
The Carver Brothers Co.	No. 2 & 3	20,226	7,642	17,868		17,868
The Carver Brothers Co.	No. 5 Splint	20,085	24,937	54,022	820	53,202
St. Clair Colliery Co.	Diamond	6,187	3,043	9,230		3,043
M. B. Coal Co.	Eagle	18,772	12,777	18,964	240	18,484
M. B. Coal Co.	Columbia No. 5	6,389	31,210	49,982	534	49,091
M. B. Coal Co.	Elk Ridge No. 1	25,109	19,192	25,561		25,561
The Mt. Carbon Co., Ltd	Vulcan		26,854	54,903	508	11,454
Great Kanawha Colliery Co.	Brewster, Edwards & Digby	21,522	21,522	43,044		43,044
Loup Creek Colliery Co.	Ansted & Eagle	83,430	119,519	203,018	2,020	199,551
Herbert Collieries Co.	Herberton	31,003	46,629	77,632	833	75,749
Fort Defiance Coal & Coke Co.	Fort Defiance	20,710	28,056	57,766	700	55,682
Lynchburg Colliery Co.	Lynchburg	34,820	41,201	76,021	44	75,454
Ganoea Coal Co.	No. 5 Splint	48,765	44,063	93,408	446	92,387
Dietz Colliery Co.	No. 5 Splint	14,288	4,910	19,198		19,198
Dietz Colliery Co.	No. 2 Gas	15,350	5,327	20,677	423	20,076
Mill Creek Colliery Co.	Mill Creek	5,852	9,763	15,615	642	14,973
The Gauley Mountain Coal Co.	Nova Scotia & Turkey Creek	36,900	58,661	95,561		95,561
Gaymont Colliery Co.	Gaymont	1,571	3,958	5,529	625	5,000
Sunbury Coal & Coke Co.	Sunnyside	8,492	8,818	17,310		17,310
Boury-New River Coal Co.	Elmo	6,106	5,928	12,034		12,034
Michigan Coal Co.	Michigan	14,038	14,078	28,716	455	28,021
Manufacturers & Consumers' Coal Co.	Newlyn	21,055	16,569	37,624		37,624
The Fayette Coal & Coke Co.	Fayette	7,200	8,400	15,600	300	15,300
Brown Coal Co.	Brown	34,515	35,535	70,050	1,607	67,843
Nuttallburg Collieries Co.	Nuttallburg and Keeney's Creek	20,348	32,417	61,765	700	60,265
Holiday Coal Co.	Keeney's Creek	37,000	10,000	19,720	140	19,720
Keeney's Creek Colliery Co.	Smokeless	37,000	43,000	80,000	1,800	77,300
Keeney's Creek Colliery Co.	Boone	30,000	30,000	60,000	600	58,800
Ballingier Coal Co.	Ballingier No. 1	28,665	27,374	56,039	886	55,023
Ballingier Coal Co.	Ballingier No. 2	2,435	2,694	5,129		5,129

		40,200	57,000	97,200	4,850	401	59,900	32,049	18,500	19,800	38,300
New River Collieries Co		51,300	61,258	112,538	6,000	1,200		105,358			
New River Collieries Co		47,954	61,000	108,954				74,354	600	20,200	20,800
New River Collieries Co		37,479	36,543	74,022				74,022			
The Dungen Coal Co		18,577	23,286	41,863				41,703			
Newlyn Coal Co		8,212	7,673	15,885	100	200		15,585			
Meadow Fork Coal Co		16,528	13,170	29,698	200	120		29,378			
The Star Coal & Coke Co		65,167	45,226	110,393	2,746	1,110		106,537			
Laura Mining Co		28,954	27,541	56,495		200		55,695			
Nichol Colliery Co		42,500	46,100	88,600	1,200	420		86,980			
McKell Coal & Coke Co		38,679	38,004	76,743	1,900	250		74,993			
Harvey Coal & Coke Co		137,776	144,367	282,143	7,824	2,076		272,543			
Pru. Lyman & Jones		55,385	55,170	110,555	3,590	1,200		111,312	10,550	11,625	22,175
Crittenden Coal Co		51,127	63,241	114,368	2,495	561		113,312			
Collins Colliery Co		76,580	88,636	165,216	7,200	1,200		135,316	7,640	7,645	15,285
White Oak Fuel Co		44,278	44,278	88,556	6,906	1,128		80,522			
White Oak Fuel Co		46,600	44,941	91,541	5,881	1,035		84,625			
White Oak Fuel Co		41,009	41,009	82,018	5,445	872		75,701			
White Oak Fuel Co		46,818	46,818	93,636	6,556	1,021		86,250			
White Oak Fuel Co		40,663	36,611	77,274	5,500	825		70,049			
Stuart Colliery Co		18,169	28,250	46,419	5,763	933		39,723			
Stuart Colliery Co		7,239	5,391	12,630	126			12,504			
Stuart Colliery Co		14,697	29,912	44,609	8,143	820		35,646			
Dun Loop Coal & Coke Co		17,435	14,009	31,444		50		31,394			
Dun Loop Coal & Coke Co		50,477	67,355	117,832	940			116,892			
Macdonald Colliery Co		48,811	48,811	97,622	4,539	1,011		93,560	8,553	8,554	17,107
Sugar Creek Coal & Coke Co		46,159	53,808	99,967	2,078	1,275		96,614			
Price Hill Fuel Co		20,077	20,078	40,155	3,318			36,837			
Turkey Knob Coal Co		52,417	57,623	110,040				90,041	5,424	7,900	13,333
Mt. Hope Coal & Coke Co				741		741					
Totals		3,808,257	3,789,490	7,597,747	150,085	64,900	802,811	6,573,891	240,524	273,048	513,572
<i>Kanawha County.</i>											
Falling Rock Cannon Coal Co		4,742	2,892	7,634	357	68		7,209			
Queen Shoals Coal Co		10,500	11,822	22,322	268	214		21,840			
Queen Coal & Coke Co			3,707	3,707	122	19		3,566			
The Elk Coal Co			2,890	12,518	705	133		11,680			
Pen Mar Mining Co		9,688	4,545	8,635				8,635			
The Clay Coal Co		7,694	9,486	17,150	136	134		16,880			
Mill Creek Cannon Coal Co		5,517	7,734	13,251	802	520		11,929			
Blue Creek Coal & Land Co		4,579		4,579				4,579			
Blue Creek Coal & Land Co		3,752		3,752				3,752			
Blue Creek Coal & Land Co		12,057	25,839	25,839				25,839			
Blue Creek Coal & Land Co		3,314	1,863	5,177	134	102		4,941			
Roderick Coal Co		3,341	4,444	1,730				1,730			
Acme Steam Coal Co		3,341	3,571	6,912		36		6,876			
Williams Coal Co		85,401	124,680	210,081	3,978	6,116		199,987			
The Campbells Creek Coal Co				8,397				8,397			
Quincy Coal Co., Inc		13,154	15,431	28,585	1,515	874		26,196			

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Total Coal Produced for Year.	Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)		
		1st 6 Mos.	2nd 6 Mos.		Used in Op-eration of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.
Kanawha County—Cont.	Sunday Creek Co	No. 101	35,497	37,580	73,057	935	1,292		70,800	
	Sunday Creek Co	No. 104	25,017	21,490	47,507	1,333	625		45,546	
	Sunday Creek Co	No. 105	89,475	34,122	123,597	3,403	2,996		117,598	
	Sunday Creek Co	No. 109	36,884	14,455	51,339	128	1,431		49,780	
	The New Cedar Grove Coal & Brick Co	Boyd	9,300	4,306	13,606	428	263		12,912	
	Kelly's Creek Colliery Co	No. 1	43,026	6,849	49,875	312	158		49,405	
	Kelly's Creek Colliery Co	Nos. 3 & 4	71,526	65,093	137,129	2,784	1,745		132,600	
	Hughes Creek Coal Co	Hugheson Nos. 2 & 3	41,200	45,705	83,905	1,115	1,019		84,831	
	Cannelton Coal Co	Cannelton No. 2	40,243	57,763	98,005	1,279	1,455		95,272	
	The Monarch	Monarch	23,635	46,655	70,290	2,485	704		67,101	
	The Marmet Coal Co	Butler	2,246	13,998	16,244	425	333		15,456	
	The Marmet Coal Co	Butler No. 2	9,335	13,195	22,530	694	612		21,224	
	The Marmet Coal Co	Butler No. 5	3,891	5,527	9,388	289	254		8,845	
	Oleott Coal & Iron Co	Oleott No. 1	20,737	15,051	35,788	1,072	446		34,270	
	Oleott Coal & Iron Co	Oleott No. 2	21,380	1,801	23,181	714	357		22,110	
	Frank Ellison	Peepless	8,405	6,074	14,589	49	231		14,280	
	Winifrede Coal Co	South	21,809	21,809	43,618	357	1,071		42,190	
	Winifrede Coal Co	North Pike & Machine	17,925	17,925	35,850	1,116	1,071		33,693	
	Winifrede Coal Co	West	5,376	5,374	10,750	286	214		10,250	
	Winifrede Coal Co	New Coalburg	6,583	28,393	34,776		848		33,928	
	Dry Branch Coal Co	Gas		4,357	4,357				4,357	
	Dry Branch Coal Co	Coalburg	8,494	8,035	16,969	534	196		16,239	
	Dry Branch Coal Co	Belmont	16,078	17,857	33,935	534	196		33,205	
	Dry Branch Coal Co	Ronda	17,481	17,388	34,869	145	6,390		28,334	
	Coalburg Colliery Co	Oakley	21,071	22,657	43,728	910	453		42,395	
	Wyatt Coal Co	Berlin	25,942	29,811	55,753	1,070	428		54,255	
	Wyatt Coal Co	South	23,979	36,105	60,084		492		59,592	
	Chelvan Fuel Co	Coalburg Station		714	714			*	714	
	Persinger Coal Co	Wilton	1,824	1,826	3,650	61	60		3,529	
Lanmont Mining Co	Lanmont No. 1	4,200	3,857	8,057	675			7,382		
Lanmont Mining Co	Lanmont No. 3	26,553	21,839	48,392		101		48,291		
Holley & Stephenson C. & C Co	Stephenson No. 2	29,017	29,017	58,034				58,034		
No. 5	No. 5	30,000	30,000	60,000				60,000		
Wake Forest Mining Co	Wake Forest	18,797	25,991	44,788	691	331		43,736		
Carbon Coal Co	North	28,786	25,389	54,175		400		53,475		
Carbon Coal Co	South	17,221	21,515	38,736	3,000			35,475		

*Used for C. & O. Engines.

Company	South Splint	26,183	20,992	47,175	2,000	500	46,675
Carbon Coal Co.	No. 4	27,965	29,255	55,290			55,290
Republic Coal Co.	No. 2	30,215	31,563	61,778			61,778
Republic Coal Co.	No. 3	43,804	20,603	44,890			44,890
West Virginia Colliery Co.	No. 1	43,804	53,417	97,311	3,000	500	93,811
West Virginia Colliery Co.	No. 2	10,300	18,717	29,017			29,017
West Virginia Colliery Co.	No. 3	28,451	34,122	62,603			62,603
West Virginia Colliery Co.	No. 4	25,276	24,563	49,839			49,839
Cabin Creek Cons. Coal Co.	Davis	22,821	23,398	46,219	505	638	44,985
Cabin Creek Cons. Coal Co.	Cherokee	15,541	29,547	45,088			44,782
Cabin Creek Cons. Coal Co.	Caledonia	9,291	10,328	19,619		113	19,506
Cabin Creek Cons. Coal Co.	Red Warrior	15,899	17,992	33,891	882	2,702	30,307
Cabin Creek Cons. Coal Co.	Buckeye	12,281	13,363	25,644			
Cabin Creek Cons. Coal Co.	Empire	12,731	13,301	26,122			
Cabin Creek Cons. Coal Co.	Black Tulip	6,900	13,536	20,526		568	20,554
Cabin Creek Cons. Coal Co.	Keystone	20,200	22,594	42,794	1,257		20,596
Cabin Creek Cons. Coal Co.	Acme	7,129	10,175	17,314		12	41,525
Cabin Creek Cons. Coal Co.	Shamrock	178	52,139	52,357		724	16,300
Cabin Creek Cons. Coal Co.	Thistle	16,844	16,324	33,108		8	32,329
Cabin Creek Cons. Coal Co.	Raccoon	2,600	29,650	32,250		114	33,054
Cabin Creek Cons. Coal Co.	Raccoon Splint		14,022	14,022		402	31,848
Cabin Creek Cons. Coal Co.	Rose	24,665	40,270	64,935			14,022
Cabin Creek Cons. Coal Co.	Kayford	42,004	43,661	86,285	3,243	1,157	64,935
Cabin Creek Cons. Coal Co.	Holly	16,255	15,458	31,713			81,865
Cabin Creek Cons. Coal Co.	Quarrier	22,305	22,059	44,364	1,286	201	31,422
Cabin Creek Cons. Coal Co.	United Gas	55,433	52,974	108,407	1,026	886	42,192
Cabin Creek Cons. Coal Co.	Relleclare	16,712	22,992	47,699			105,800
Cabin Creek Cons. Coal Co.	Ruby	17,682	16,659	32,771	474	13	47,616
Cabin Creek Cons. Coal Co.	Reynolds	29,355	18,405	36,087		385	31,902
Cabin Creek Cons. Coal Co.	Kimberlocker	31,121	14,122	43,457		69	36,018
Cabin Creek Cons. Coal Co.	Seranton	40,256	13,217	44,338	948	185	42,324
Cabin Creek Cons. Coal Co.	Paint Creek	37,364	26,967	67,223	84	163	44,091
Cabin Creek Cons. Coal Co.	Wacomah	37,892	38,722	76,086	1,427	504	65,292
Cabin Creek Cons. Coal Co.	Banner No. 1	20,007	19,089	56,981	934	327	76,086
Cabin Creek Cons. Coal Co.	Banner No. 2	10,803	9,916	29,923	1,124	55,720	28,491
Cabin Creek Cons. Coal Co.	Detroit	15,382	7,631	19,823	754	308	18,051
Cabin Creek Cons. Coal Co.	Grose No. 1	10,641	9,923	13,436	606	118	12,563
Cabin Creek Cons. Coal Co.	Grose No. 2	14,911	7,404	23,285	750	147	24,526
Cabin Creek Cons. Coal Co.	Greenbrier No. 2	16,080	9,065	18,045	514	302	17,229
Cabin Creek Cons. Coal Co.	Greenbrier No. 3	430	10,102	26,182	140	112	23,894
Cabin Creek Cons. Coal Co.	A	19,214	2,350	27,780		140	25,902
Cabin Creek Cons. Coal Co.	B	8,065	8,243	27,457	1,429	2,780	25,285
Cabin Creek Cons. Coal Co.	Coalburg	8,065	8,065	16,070		743	14,822
Cabin Creek Cons. Coal Co.	Coalburg No. 8	1,786	10,644	12,430	267	356	11,380
Cabin Creek Cons. Coal Co.	Standard	58,482	31,095	90,177	802	783	88,807
Cabin Creek Cons. Coal Co.	No. 1	33,482	21,442	77,922	2,678	508	18,704
Cabin Creek Cons. Coal Co.	No. 3	37,756	43,840	77,922		801	76,431
Cabin Creek Cons. Coal Co.	Chesapeake No. 1	37,096	34,809	62,565	635	800	71,070
Cabin Creek Cons. Coal Co.	Chesapeake Nos. 2 & 3		36,267	73,363	419	197	72,747

57.200

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)				
		1st 6 Mos.	2nd 6 Mos.	Total Coal Produced for Year.	Used in Op-eration of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.
<i>Kanawha County—Con't.</i>											
Montgomery Coal Co.	Upper Cr'k & Hick. Nut	21,621	14,942	36,563	358	2,678		33,527			
Morris Creek Colliery Co.	Morris Creek		5,546	5,546	179	700		5,267			
Totals		2,036,884	2,080,329	4,136,213	63,247	55,714		4,077,252			
<i>Boone County.</i>											
The Coal River Co.	Ottawa		2,915	2,915		205		2,710			
The Spruce River Coal Co.	Ramage Nos. 1, 2 & 3		536	536				536			
Totals			3,451	3,451		205		3,246			
<i>Nicholas County.</i>											
Kentucky Coal & Lumber Co.	Mt. Carmel	661	3,089	3,750	209	311		3,220			
Armistead Coal Co.	Armistead	5,804		5,804	27	16		5,761			
Raven Collieries	Raven	8,502	5,019	13,611	624	249		12,738			
Pardee & Curtin Lumber Co.	Panther Creek	2,096	1,828	3,924	7	552		3,365			
Saxman Coal & Coke Co.	Saxman	2,380	11,087	13,467	218	499		12,750			
Totals		19,533	21,023	40,556	1,085	1,627		37,844			
<i>Greenbrier County.</i>											
Elk Lick Coal Co.	Lost Flat	17,380	14,907	32,286	774			31,522			
Totals		17,380	14,907	32,286	774			31,522			
<i>Raleigh County.</i>											
Big Coal Co.	Dorothy	92,384	73,928	166,312	867	549		164,896			
The New River Collieries Co.	Royal	9,355	2,992	12,347	600	400		11,347			
The New River Collieries Co.	Lanark No. 3	9,330	9,600	18,930	1,350	300		17,280			
The New River Collieries Co.	Lanark No. 4	27,997	28,831	56,828				56,828			
The New River Collieries Co.	Ecclies No. 11	9,469	15,795	25,265	5,132	451		19,082			
McKell Coal & Coke Co.	Oswald	34,507	37,573	72,080		540		71,540			
McKell Coal & Coke Co.	Graham	27,141	33,871	61,012	60	400		60,532			
McKell Coal & Coke Co.	Tanroy	7,819	12,090	20,809	480	120		20,200			
Wright Coal & Coke Co.	Wright No. 1	23,565	26,466	50,031	552	144		49,365			
Wright Coal & Coke Co.	Wright No. 2	19,102	24,096	43,198	252	100		42,846			
Stonewall Coal & Coke Co.	Terry	23,882	33,014	56,846	600	575		55,671			
Stonewall Coal & Coke Co.	Stonewall No. 3	21,109	24,287	45,386	600	600		44,191			

Stonewall Coal & Coke Co.									
Piney Mining Co.	6,000	1,200	7,200	12	2,142	2,142	7,188	.....	.....
Piney No. 1	23,126	34,087	57,213	2,142	.....	.....	52,929	.....	.....
Piney No. 2	17,325	19,100	37,425	.....	1,428	1,428	35,997	.....	.....
Piney No. 3	17,750	25,784	43,534	356	1,070	1,070	42,108	.....	.....
Piney No. 4	22,960	30,274	53,234	.....	356	356	52,878	.....	.....
Raleigh Nos. 1, 2 & 4	44,889	68,083	122,898	5,000	830	830	87,068	.....	.....
Raleigh Coal & Coke Co.	70,700	49,083	139,783	.....	.....	.....	130,783	.....	.....
Raleigh No. 3	19,055	17,450	36,505	300	.....	.....	36,205	.....	.....
Raleigh Coal & Coke Co.	40,006	58,716	98,722	.....	.....	.....	98,722	.....	.....
Raleigh No. 6	15,000	15,000	16,000	.....	1,000	1,000	15,000	.....	.....
Blue Jay Lumber Co.	1,000	14,149	14,149	400	.....	.....	13,389	.....	.....
Sullivan Coal & Coke Co.	36,959	47,903	84,865	.....	350	350	81,733	.....	.....
Cranberry Fuel Co.	21,661	3,610	25,271	2,323	.....	.....	81,733	.....	.....
Cranberry No. 1	20,908	41,754	71,752	3,163	430	430	21,678	.....	.....
Cranberry Fuel Co.	20,287	23,331	43,618	7,173	749	749	63,830	.....	.....
Prosperity	31,060	33,075	64,135	4,432	.....	.....	38,586	.....	.....
Malboscott	39,063	64,469	124,132	2,720	800	800	63,520	.....	.....
Beckley Coal & Coke Co.	27,777	27,777	55,553	3,659	1,196	1,196	50,698	.....	.....
Price Hill	31,685	61,044	92,730	647	1,252	1,252	90,800	.....	.....
Slab Fork Coal Co.	.....	10,000	10,000	250	.....	.....	9,750	.....	.....
Nos. 1 & 2 Shaft	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	828,550	989,262	1,797,812	43,070	17,786	17,786	1,736,956	.....	.....
Mercer County.									
Mill Creek Coal & Coke Co.	94,503	83,759	178,482	615	813	813	104,033	1,075	9,587
Mill Creek Coal & Coke Co.	90,097	70,610	178,716	536	670	670	15,546	15,546	32,092
Buckeye Coal & Coke Co.	50,000	56,912	115,912	544	300	300	85,852	8,161	18,688
Booth-Bowen Coal & Coke Co.	67,267	63,355	130,542	1,800	933	933	95,902	8,183	19,941
Pocahton as Consolidated Collieries Co., Inc.	82,190	78,700	160,890	6,000	5,000	5,000	136,200	1,240	8,550
Louisville Coal & Coke Co.	88,326	81,124	169,450	2,988	1,228	1,228	133,986	8,463	20,855
Cephus Coal Co.	5,804	7,589	13,393	89	268	268	13,066	.....	.....
Crystal Coal & Coke Co.	52,530	65,748	118,278	540	272	272	74,322	7,918	26,480
American Coal Co. of Alleghany Co.	113,978	112,803	226,781	2,890	1,295	1,295	138,252	24,625	47,329
American Coal Co. of Alleghany Co.	91,145	93,767	184,912	6,304	954	954	177,654	.....	.....
American Coal Co. of Alleghany Co.	24,643	35,808	60,451	1,647	471	471	58,333	.....	.....
The Thomas Coal Co.	65,200	69,849	135,049	3,000	360	360	76,067	16,816	37,144
Pawama Coal & Coke Co.	28,636	28,672	67,708	273	382	382	67,051	.....	.....
The Weyanoke Coal & Coke Co.	28,809	38,831	67,640	2,678	1,070	1,070	63,882	.....	.....
The Weyanoke Coal & Coke Co.	12,877	9,427	22,304	.....	.....	.....	22,304	.....	.....
The Smokeless Coal & Coke Co.	14,525	12,475	27,000	.....	300	300	26,700	.....	.....
The Smokeless Coal & Coke Co.	34,845	35,980	70,865	.....	400	400	70,465	.....	.....
Hiawatha Coal & Coke Co.	60,220	73,193	133,413	1,000	600	600	131,813	.....	.....
Spring Coal Mining Co.	24,790	13,426	38,216	500	300	300	37,416	.....	.....
Wenonah	2,116	1,225	3,341	.....	.....	.....	3,341	.....	.....
T. D. Lee	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	1,061,641	1,041,622	2,103,263	32,006	15,486	15,486	347,546	92,027	220,646

PRODUCTION OF COAL AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Total Coal Produced for Year.	Distribution of Coal (Tons of 2,240 pounds.)			Production of Coke (Tons of 2,000 lbs.)			
		1st 6 Mos.	2nd 6 Mos.		Used in Op-eration of Mine.	Furnished Local Trade and Tenants.	Used in Coke Ovens.	Quantity Shipped from Mine.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.
McDowell County.											
Alzona Coal & Coke Co.	Piney & North Fork	74,686	78,771	153,457	1,770	1,140	33,080	114,477	9,665	13,114	22,780
Elk Ridge Coal & Coke Co.	Elk Ridge	49,694	58,090	107,784	2,970	925	35,849	67,440	7,120	15,285	22,405
Gilliam Coal & Coke Co.	Gilliam	68,414	77,235	145,649	1,050		33,653	107,996	10,030	12,878	22,908
Indian Ridge Coal & Coke Co.	Indian Ridge	57,625	58,577	116,202	618	200	31,910	83,474	9,132	12,529	21,661
Roanoke Coal & Coke Co.	Roanoke	48,764	50,908	99,672	1,000	750	34,713	63,209	13,571	12,188	25,759
Arlington Coal & Coke Co.	Arlington	50,311	67,333	117,644	852		30,771	86,021	8,664	10,617	19,281
Greenbrier Coal & Coke Co.	Greenbrier	85,337	75,731	161,068	2,763	1,179	35,466	121,650	10,619	13,026	23,645
McDowell Coal & Coke Co.	McDowell	120,820	111,406	232,226	2,763	1,744	29,365	201,117	9,110	12,816	21,926
Ashtand Coal & Coke Co.	Ashtand and Monitor	92,174	100,801	192,975	3,200	350	15,451	173,974	373	9,928	10,301
Pocahontas Cons. Coll. Co., Inc.	Cherokee	44,730	42,630	87,360	6,000	5,000	13,940	79,520	8,710	7,650	8,710
Pocahontas Cons. Coll. Co., Inc.	Lick Branch	85,360	17,100	102,460	4,000	4,000	12,240	134,580	7,650	7,650	7,650
Pocahontas Cons. Coll. Co., Inc.	Delta	84,960	89,860	174,820	24,000	4,000	56,370	128,800	3,290	31,970	35,230
Pocahontas Cons. Coll. Co., Inc.	Shamokin	77,220	117,950	195,170	5,000	5,000	160,630	172,170	52,080	60,360	112,440
Pocahontas Cons. Coll. Co., Inc.	Norfolk & Angle	130,440	185,340	315,780	7,000	6,000		36,000			
Pocahontas Cons. Coll. Co., Inc.	West	16,000	20,000	36,000							
Zenith Coal & Coke Co.	Nos. 1 & 2	52,401	40,079	92,680	2,305	211		90,164			
Elkhorn Coal & Coke Co.	Elkhorn	104,907	94,848	199,755	1,800	1,497	30,415	157,043	11,378	17,796	29,174
Mohawk Coal & Coke Co.	Mohawk	29,426	15,605	45,031	3,150	120		41,761			
New River & Pocahontas Con-solidated Coal Co.	Nos. 1, 2 & 3	128,443	130,902	259,345	5,730	1,900	72,723	178,992	21,212	27,276	48,488
Dry Fork Min. & Investm't Co.	War Creek	8,762	3,000	11,762	265	200		11,297			
Hall Mining Co.	Hall No. 1	43,274	21,147	64,421	525	250		63,646			
Pocahontas Domestic Coal Co.	Domestic		1,407	1,407				1,407			
War Creek Coal Co.	No. 2		4,092	4,092				4,092			
Dry Fork Colliery Co.	Dry Fork	1,492	11,000	12,492	600	20		11,872			
Reynolds Mining Co.	Reynolds		1,700	1,700	10			1,690			
Virginia-Pocahontas Coal Co.	Nos. 1 & 1 1/2	27,202	18,480	45,772	847	552		44,373			
Virginia-Pocahontas Coal Co.	No. 2 East & West	18,434	12,290	30,724				30,724			
Virginia-Pocahontas Coal Co.	Nos. 3 & 4	28,584	19,057	47,641				47,641			
Virginia-Pocahontas Coal Co.	No. 5	11,840	17,919	29,759				29,759			
Vaughan Coal & Coke Co.	Vaughan	6,723	2,663	9,386	1,338	178		28,243			
Premier-Pocahontas Coal's. Co.	Nos. 1, 2 & 3		37,146	37,146	57	1,400		7,920			
Big Sandy Coal Co.	Big Sandy	45,181	46,389	91,550	400	300		36,446			
Big Sandy Coal Co.	Marytown	68,918	65,141	134,059	673	827		90,050			
Twin Branch Mining Co.	Twin Branch	39,254	33,367	72,621	1,200	1,259		132,143			
Maher Coal & Coke Co.	Maher Nos. 1 & 2	23,945	20,846	44,791	1,261	1,261		70,072			
J. B. B. Collieries Co.	J. B. B. No. 1	17,660	9,089	26,749	2,410	879		41,120			

PRODUCTION OF COAL, AND COKE, BY COUNTIES, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Production of Coal (Tons of 2,240 lbs.)		Total Coal Produced for Year.	Distribution of Coal (Tons of 2,240 lbs.)		Quantity Shipped from Mine.	Production of Coke (Tons of 2,000 lbs.)	
		1st 6 Mos.	2nd 6 Mos.		Used in Op-eration of Mine.	Furnished Local Trade and Tenants.		Used in Coke Ovens.	1st 6 Mos.	2nd 6 Mos.	Total for the Year.
<i>McDowell County—Cont.</i>									
Turkey Gap Coal & Coke Co.	Turkey Gap	191,835	177,912	369,747			119,275	250,472	31,926
Flat Top Coal & Mining Co.	Flat Top		4,623	4,623	400	100		4,423	
Hurricane Branch Coal Co.	Hurricane	3,600	3,800	7,400	250	125		7,025	
Henrietta Coal & Coke Co.	Henrietta	5,000	12,000	17,000	239	80		16,651	
Totals		4,507,800	4,907,239	9,415,039	190,438	87,146	2,505,670	6,502,809	792,291
<i>Lincoln County.</i>									
Branchland Coal Co.	Branchland	19,282	22,006	41,288	1,338	310		39,640	
Kenova Coal Mining Co.	Kenova	1,737	4,786	6,523				6,523	
Coaling Station	Coaling Station	357	1,786	2,143		0	2,143		9
Totals		21,376	28,578	49,954	1,338	2,453		46,136	
<i>Logan County.</i>									
Stone Branch Coal Co.	Nos. 1, 2 & 3.	14,083	20,717	35,400	365	400		34,635	
Big Creek Coal Co.	Big Creek	9,821	8,928	18,749	200	312		18,237	
E. R. Johnson Coal Mining Co.	Johnson	431	10,330	10,770		249		10,521	
Draper Coal & Coke Co.	Draper	41,837	34,170	76,007				76,007	
H. T. Wilson Coal Co.	Wilson	27,300	30,329	57,629	1,200			56,429	
Fort Branch Coal Co.	Fort Branch	16,071	11,607	27,678		506		27,112	
Price Coal Co.	Price	22,634	22,634	45,268	358	268		44,642	
Rex Coal Co.	Rex	13,532	25,585	39,117	574	119		38,424	
The Logan Coal Co.	Logan	22,675	28,647	51,322				51,322	
The Ethel Coal Co.	Ethel	24,329	17,562	41,891	1,218	326		40,347	
The Monitor Coal & Coke Co.	Monitor	65,611	62,600	128,211	428	273		127,510	
The Monitor Coal & Coke Co.	Beechwood	30,172	29,558	59,730				59,730	
The Yuma Coal & Coke Co.	Yuma	29,259	24,269	53,528		378		53,150	
The Gay Coal & Coke Co.	Gay	44,859	39,964	84,823	818	536		83,489	
Corra Coal & Coke Co.	Corra	24,225	33,830	58,055		1,696		56,449	
United States Coal & Oil Co.	Island Creek No. 1	166,004	181,967	347,971	10,239	6,250		331,502	
United States Coal & Oil Co.	Island Creek No. 2	193,717	198,471	392,188		2,657		389,531	
United States Coal & Oil Co.	Island Creek No. 3	49,317	72,903	122,220		908		121,312	
United States Coal & Oil Co.	Island Creek No. 4	44,557	83,190	127,747		255		97,492	
United States Coal & Oil Co.	Nos. 5 & 6	74,469	86,270	160,739		176		160,563	
Totals		915,503	993,560	1,909,063	15,400	15,279		1,878,384	

O—Used for N. & W. Engines.

*PRODUCTION OF COAL IN WEST VIRGINIA, BY GEOGRAPHICAL DISTRICTS
FOR THE YEAR ENDING JUNE 30th, 1903.*

(Tons of 2,240 lbs.)	
Potomac District	1,928,937
Monongahela District	9,326,064
Wheeling District	888,578
Interior District	153,840
Kanawha-New River District	14,128,086
Norfolk & Western District.....	15,088,261
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Total Commercial Mines	41,513,766
Small Mines	180,000
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Grand Total	41,693,766

POTOMAC DISTRICT

(Counties of Grant, Mineral and Tucker.)

Davis Coal & Coke Company (1 in Grant, 9 in Mineral and 8 in Tucker)	1,614,146
Cumberland Coal Company.....	133,460
Gleason Coal & Coke Company.....	42,000
Abrams Creek Coal & Coke Company.....	31,327
Masteller Coal Company.....	30,134
Smith Coal Company	26,283
Buffalo Creek Cumberland Coal Company.....	11,544
Western Maryland Coal Company.....	10,401
Big Vein Coal Company of West Virginia.....	8,899
Pidemont & Potomac Coal Company.....	5,439
Glade Run Coal & Coke Company.....	5,350
Beacon Coal & Coke Company	3,208
Gatzmer Coal & Coke Company	2,708
Denman Coal Company	1,665
Emory Run Coal Company	1,506
Cottage Street Coal Company.....	867
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Total	1,928,937

MONONGAHELA DISTRICT.

(Counties of Barbour, Harrison, Marion, Monongalia, Preston, Randolph, Taylor and Upshur.)

Fairmont Coal Company, (16 mines in Marion; 16 in Harrison; 1 in Barbour; 1 in Monongalia).....	3,400,734
Clarksburg Fuel Company	439,498
George's Creek Coal & Iron Company.....	428,119
The Virginia & Pittsburg Coal & Coke Company.....	345,127
The Century Coal Company of West Virginia	333,250
Elkins Coal & Coke Company, (2 mines in Monongalia; 3 in Preston)...	298,218
Davis Colliery Company, (1 mine in Barbour; 4 in Randolph).....	274,591
Federal Coal & Coke Company.....	267,745
New Central Coal Company	265,142
Davis Coal & Coke Company, (1 mine in Barbour; 2 in Randolph).....	233,159
Pittsburg & Fairmont Fuel Company	223,375
Mediera-Hill-Clark Coal Company.....	217,365
Rosemont Coal Company	160,240

Hutchinson Fuel & Supply Company.....	152,509
Meadow Brook Coal & Coke Company.....	138,767
Austen Coal & Coke Company	99,948
Virginia Maryland Coal Corporation	87,547
Cook Coal & Coke Company	86,867
Connellsville Basin Coke Company.....	85,496
Irona Coal Company	83,062
Pitcairn Coal Company	81,303
Marshall Coal Company	79,374
Corona Coal & Coke Company.....	78,863
Grafton Coal & Coke Company	75,000
Preston County Coke Company.....	71,543
Fairmont & Baltimore Coal Company	63,228
Short Line Coal Company.....	60,142
O'Gara Coal Mining Company	59,278
Maryland Coal Company	58,989
Harry B. Coal Company	55,726
Monroe Colliery Company	53,248
Vincent Coal Company	52,981
Central Fairmont Coal Company	52,078
Orr Coal & Coke Company	48,993
Red Rock Fuel Company	48,586
Merchants Coal Company	47,908
Midland Coal & Coke Company	44,617
Kingwood Coal Company	43,434
Grafton Fuel Company.....	40,300
McGraw Coal Company	40,117
Tygarts River Coal Company	39,518
Pittsvein Coal Company	33,981
Meriden Coal Mining Company	33,155
Blue Ridge Coal Company	30,000
Gorman Coal & Coke Company.....	28,429
T. B. Davis	27,535
Harrison Coal Company	25,482
Parker Run Coal & Coke Company.....	24,379
Hero Coal & Coke Company	24,066
National Coal Company	22,000
Fayette Coal Company	20,612
Laurel Creek Coal Company	20,000
Haywood Coal Mining Company	19,900
Pittsburg Steam Coal Company	19,717
Kilarm Coal & Coke Company.....	17,986
Rose-Bud Coal Company	16,483
Winona Coal & Coke Company	15,631
Cook & Hart Coal Company	15,131
Lamberts Run Coal Company.....	14,395
Miller Coal & Coke Company	11,760
Oakland Coal & Coke Company	9,000
W. H. Green (Lessee)	8,928
Manufacturers Coal & Coke Company.....	8,278
Newcomer Coal Company	7,435
Southwestern Coal Company	7,322
Grant Coal Company	6,174
Harrison County Coal Company	5,829
Luella Coal & Coke Company	5,800
The Great Scott Coal Company	5,135
Buckhannon River Coal Company.....	4,568
Hite Coal & Coke Company	4,200
Hamilton Coal & Coke Company	3,600

Catawba Coal Company	3,408
Humphries Colliery Company	3,202
W. B. Gunton Coal Company	2,700
Washington Fuel Company	1,600
Dakota Coal & Coke Company	1,000
Johnson Brothers Coal Company	658
Total	9,326,064

WHEELING DISTRICT.

(Counties of Brooke, Hancock, Marshall and Ohio.)

LaBelle Iron Works, (1 mine in Brooke; 1 in Ohio)	150,927
Hitchman Coal & Coke Company.....	132,049
Lewis-Findley Coal Company	102,221
Beech Bottom Coal & Coke Company.....	93,624
Richland Coal Company	89,285
Wheeling Steel & Iron Company.....	57,053
LaBelle Coal Company	53,826
The Marquet Coal Company	46,756
Rex Carbon Coal Company	44,641
Whitaker-Glessner Company	33,255
Mound Coal Company	21,429
A. Gilchrist & Sons Company	14,911
Elm Grove Coal Company	10,193
Bituminous Coal Company of America	8,777
Glendale Coal Company	7,302
Boggs Run Mining & Manufacturing Company.....	7,238
Reymann Brewing Company	7,045
Peter Storch & Sons	4,800
J. S. Creighton	3,246
Total	888,578

INTERIOR DISTRICT

(Counties of Braxton, Gilmer, Greenbrier and Lewis.)

Davis Colliery Company	93,024
Elk Lick Coal Company.....	32,296
Cosmopolitan Coal & Coke Company	14,740
Jacksonville Coal & Coke Company	13,780
Total	153,840

KANAWHA-NEW RIVER DISTRICT.

(Counties of Clay, Fayette, Kanawha, Lincoln, Mason, Nicholas, Putnam, Boone and Raleigh.)

The New River Company (6 mines in Raleigh and 27 in Fayette).....	1,804,568
Sunday Creek Company, (4 mines in Kanawha and 4 in Fayette).....	925,498
Cabin Creek Consolidated Coal Company	861,165
New River Collieries Company.....	645,132
Boomer Coal & Coke Company	623,880
New River & Pocahontas Consolidated Coal Company.....	615,133
McKell Coal & Coke Co. (4 mines in Raleigh; 2 in Fayette).....	512,787
Paint Creek Collieries Company	481,458
Raleigh Coal & Coke Company.....	367,908
West Virginia Colliery Company	238,770
The Campbell's Creek Coal Company	210,081
Loup Creek Colliery Company	203,018
Piney Mining Company	191,406
Kellys Creek Colliery Company	187,004

The Low Moor Iron Company of Virginia.....	183,455
Wyatt Coal Company.....	169,595
Big Coal Company	166,312
Republic Coal Company	163,798
The Otto Marmet Coal & Mining Company.....	149,452
Ephraim Creek Coal & Coke Company	146,916
Carbon Coal Company	140,086
Keeneys Creek Colliery Company	140,000
Chesapeake Mining Company	135,928
Winifrede Coal Company	124,994
The Marmet Coal Company	118,452
Holley & Stephenson Coal & Coke Company.....	118,034
Plymouth Coal & Mining Company	115,309
The Carver Brothers Company	112,351
The Star Coal & Coke Company.....	110,393
Turkey Knob Coal Company	110,040
Stonewall Coal & Coke Company.....	109,442
Black Betsey Coal & Mining Company	106,883
The Columbus Iron & Steel Company	104,810
Imperial Colliery Company	98,764
Cannelton Coal Company	98,006
The Gauley Mountain Coal Company	95,561
M. B. Coal & Coke Company	94,507
Gamoca Coal Company	93,408
Wright Coal & Coke Company	93,259
Slab Fork Coal Company	92,739
Standard Splint & Gas Coal Company	90,177
Nichol Colliery Company	88,600
Mecca Coal & Coke Company	88,457
Hughes Creek Coal Company	86,965
The Thurmond Coal Company	85,963
Hemlock Hollow Coal & Coke Company.....	85,486
Beechwood Coal & Coke Company.....	83,706
Herbert Collieries Company	77,632
Meseley & Walker	77,257
Lynchburg Colliery Company	76,021
Erown Coal Company	70,050
Blume Coal & Coke Company	67,206
Greenwood Coal Company	63,551
Nuttallburg Collieries Company.....	61,765
Stone Cliff Coal & Coke Company	61,474
Ballinger Coal Company	61,168
Glott Coal & Iron Company	58,969
Fort Defiance Coal & Coke Company.....	57,766
Laura Mining Company	56,495
LaMont Mining Company	56,449
Price Hill Fuel Company	55,553
Dry Branch Coal Company	55,461
The Mount Carbon Company (Lid.).....	54,963
South Side Company	53,726
Mason City Coal Mining Company	47,492
Beury Brothers Coal & Coke Company.....	45,016
Wake Forest Mining Company	44,788
W. R. Johnson & Company	42,854
The Dungen Coal Company	41,863
Branchland Coal Company	41,288
Kanawha Gas Coal Company	40,894
Deitz Colliery Company	39,875

Manufacturers & Consumers Coal Company	37,624
Quincy Coal Company, Inc.....	36,982
Montgomery Coal Company	36,563
Laurel Creek Coal Company	34,975
Coalburg Colliery Company	34,869
Blue Creek Coal & Land Company	34,170
Quinnimont Coal Company	34,069
Fire Creek Coal & Coke Company	32,209
W. R. Johnson	31,248
The Coalburg-Kanawha Coal Company	30,237
Rothwell Coal Company	29,868
Meadow Fork Coal Company	29,698
Michigan Coal Company	28,716
Glendale Colliery Company	28,699
Elverton Coal & Coke Company	28,000
Hartford Coal & Mining Company	25,089
Alaska Coal & Coke Company	24,463
Export Coal Company	23,019
Ridgeview Coal Company	22,864
Queen Shoals Coal Company	22,322
Lookout Coal & Coke Company	21,660
Elk River Coal & Lumber Company	21,333
Holliday Coal Company	20,000
Sunbeury Coal & Coke Company.....	17,310
The Clay Coal Company	17,150
South Western Splint Fuel Company.....	16,070
Blue Jay Lumber Company	16,000
Newlyn Coal Company	15,885
The Liverpool Salt & Coal Company.....	15,717
Mill Creek Colliery Company.....	15,615
The Fayette Coal & Coke Company.....	15,600
Frank Ellison	14,569
Sullivan Coal & Coke Company	14,149
Raven Collieries	13,611
The New Cedar Grove Coal & Brick Company.....	13,606
Saxman Coal & Coke Company.....	13,467
Mill Creek Cannel Coal Company.....	13,251
The Elk Coal Company	12,518
Equitable Coal Company	12,430
Beury-New River Coal Company	12,034
E. E. White Coal Company	10,000
Big Bend Coal Company	9,873
Pen Mar Mining Company	8,635
Beech Grove Coal Company.....	8,284
Falling Rock Cannel Coal Company	7,634
Consumers Coal & Mining Company	6,970
Williams Coal Company	6,912
New River Valley Coal Company	6,567
Marrs Branch Coal Company	6,035
Arminius Coal Company	5,804
Morris Creek Colliery Company.....	5,546
Roderick Coal Company	5,177
Oak Forest Coal & Mining Company	4,990
Carter Coal Company	4,464
Pardee & Curtin Lumber Company	3,924
Gaymont Colliery Company	3,958
Kentucky Coal & Lumber Company	3,750

Queen Coal & Coke Company	3,707
Persinger Coal Company	3,650
St. Clair Colliery Company	3,643
Dixie Coal Works	3,250
The Coal River Company	2,915
Alpha Coal Mining Company	1,786
Acme Steam Coal Company	1,730
Mt. Hope Coal & Coke Company	741
Chelyan Fuel Company	714
The Spruce River Company	536
Total	14,128,086

NORFOLK & WESTERN DISTRICT

(Counties of Logan, McDowell, Mercer, Mingo and Wayne.)

United States Coal & Coke Company	1,712,571
United States Coal & Oil Company	1,120,885
Pocahontas Consolidated Collieries Company, (2 mines in Mercer and 7 in McDowell)	1,102,560
Red Jacket Consolidated Coal & Coke Company	481,541
American Coal Company of Alleghany County	472,144
Turkey Gap Coal & Coke Company	369,747
Mill Creek Coal & Coke Company	357,178
Houston Coal & Coke Company	294,194
Pulaski Iron Company	290,152
The Empire Coal & Coke Company	287,344
New River & Pocahontas Consolidated Coal Company	259,345
Thacker Coal & Coke Company	245,793
Page Coal & Coke Company	232,915
McDowell Coal & Coke Company	232,226
Crozer Coal & Coke Company	226,754
Big Sandy Coal Company	225,609
Superior-Pocahontas Coal Company	218,415
Elkhorn Coal & Coke Company	199,755
Ashland Coal & Coke Company	192,975
Glen Alum Coal Company	189,570
The Monitor Coal & Coke Company	187,941
The Tidewater Coal & Coke Company	170,984
Louisville Coal & Coke Company	169,450
Upland Coal & Coke Company	162,991
Powhatan Coal & Coke Company	162,681
Greenbrier Coal & Coke Company	161,068
Virginia-Pocahontas Coal Company	153,896
Algoma Coal & Coke Company	153,467
The King Coal Company	150,334
Bottom Creek Coal & Coke Company	146,374
Gilliam Coal & Coke Company	145,649
Lynchburg Coal & Coke Company	145,342
Peerless Coal & Coke Company	143,397
Eureka Coal & Coke Company	141,155
The Thomas Coal Company	135,049
J. B. B. Collieries Company	133,500
Spring Coal Mining Company	133,413
Booth-Bowen Coal & Coke Company	130,542
Crystal Coal & Coke Company	118,278
Middle States Coal & Coke Company	118,128
Arlington Coal & Coke Company	117,644
Shawnee Coal & Coke Company	116,386

Keystone Coal & Coke Company	116,239
Indian Ridge Coal & Coke Company	116,202
Buckeye Coal & Coke Company	115,912
Elk Ridge Coal & Coke Company	107,184
War Eagle Coal Company	105,635
Oregon Coal Company	101,549
Roanoke Coal & Coke Company	99,672
Zenith Coal & Coke Company	92,680
The Weyanoke Coal & Coke Company	89,944
Howard Colliery Company	86,579
The Gay Coal & Coke Company	84,823
Jed Coal & Coke Company	83,000
Chattaroy Colliery Company	82,771
Draper Coal & Coke Company	76,007
The Buffalo Collieries Company	73,779
Twin Branch Mining Company	72,621
Hiawatha Coal & Coke Company	70,805
Pawana Coal & Coke Company	67,708
Hall Mining Company	64,421
Black Wolf Coal & Coke Company	60,364
Margaret Mining Company	60,000
Marvin Coal & Coke Company	58,061
Cora Coal & Coke Company	58,055
H. T. Wilson Coal Company	57,629
Lingohocken Coal Company	54,889
Dixon Pocahontas Fuel Company	53,796
The Yuma Coal & Coke Company	53,528
The Logan Coal Company	51,322
Cirrus Coal & Coke Company	47,621
Thacker Fuel Company	46,738
Welch Coal & Coke Company	46,000
Price Coal Company	45,268
Mohawk Coal & Coke Company	45,031
Maier Coal & Coke Company	44,791
The Ethel Coal Company	41,891
The Pando Coal Company	40,860
Rex Coal Company	39,117
Winonah Coal & Coke Company	38,216
Premier-Pocahontas Collieries Company	37,146
Winifrede Consolidated Coal Company	35,713
Hemphill Colliery Company	35,500
Stone Branch Coal Company	35,400
East Lynn Coal Company	34,619
Atlas-Pocahontas Coal Company	31,606
Williamson Coal & Coke Company	31,353
Fort Branch Coal Company	27,678
The Smokeless Coal & Coke Company	27,000
Slick Rock Coal Company	27,000
Lynn Coal & Coke Company	18,846
Big Creek Coal Company	18,749
Henrietta Coal & Coke Company	17,000
Rawl Coal & Coke Company	16,069
Cephus Coal Company	13,393
Virginia Fuel Company	12,533
Naugatuck Coal Company	12,464
Dry Fork Colliery Company	12,492
Dry Fork Mining & Investment Company	11,762
E. R. Johnson Coal Mining Company	10,770
Vaughan Coal & Coke Company	9,386

Kenova Coal Mining Company	8,666
Hurricane Branch Coal Company	7,400
Lemoir Coal Company	5,042
Flat Top Coal & Mining Company	4,623
W. T. Poole Coal Company	4,464
War Creek Coal Company	4,092
Pearl Coal Mining Company	3,382
T. D. Lee	3,341
Central Pocahontas Coal Company	2,723
White Star Mining Company	2,666
Warfield Coal Company	2,226
Reynolds Mining Company	1,700
Pocahontas-Domestic Coal Company	1,407
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Total	15,088,261

*A COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED
COAL, BY COUNTIES, 1909.*

(Tons of 2,240 lbs.)

COUNTY.	(Tons of 2,240 lbs.)		
	Pick Mined Coal.	Machine Mined Coal.	Total Production.
Brooke.....	60,038	389,609	449,647
Hancock.....	10,664	36,092	46,756
Marion.....	1,741,259	1,992,506	3,733,765
Marshall.....	26,843	207,005	233,848
Ohio.....	56,770	101,557	158,327
Harrison.....	1,112,617	1,893,072	3,005,689
Lewis.....		13,780	13,780
Upshur.....	37,738	22,831	60,569
Barbour.....	351,744	383,289	735,033
Monongalia.....	193,423	42,393	235,816
Preston.....	508,628	145,705	654,333
Taylor.....	335,356	102,277	437,633
Grant.....	12,411	164,995	177,406
Mineral.....	720,995	24,663	745,658
Randolph.....	463,206		463,206
Tucker.....	930,627	75,246	1,005,873
Braxton.....	93,024		93,024
Gilmer.....	14,740		14,740
Mason.....	74,743	32,059	106,802
Putnam.....	373,430	4,990	378,420
Clay.....	7,321	18,476	25,797
Fayette.....	5,176,581	2,421,166	7,597,747
Kanawha.....	823,035	3,313,178	4,136,213
Boone.....	3,451		3,451
Nicholas.....	23,195	17,361	40,556
Greenbrier.....	32,296		32,296
Raleigh.....	1,364,070	433,742	1,797,812
Mercer.....	2,023,813	79,450	2,103,263
McDowell.....	7,978,953	1,436,116	9,415,069
Lincoln.....	8,666	41,288	49,954
Logan.....	45,043	1,864,020	1,909,063
Mingo.....	455,183	1,162,398	1,617,581
Wayne.....	34,619		34,619
Totals.....	25,094,502	16,419,264	41,513,766
Small Mines.....	180,000		180,000
Grand Totals.....	25,274,502	16,419,264	41,693,766

*SUMMARY OF THE MACHINE MINED COAL IN THE STATE FOR
THE YEAR ENDING JUNE 30TH, 1909.*

COUNTY.	Number of Mines Using Machines.	Number of Ma- chines.	Tons of Coal Pro- duced by Ma- chines (Tons of 2,240 lbs.)	Number of Machine Miners.	Number of Machine Runners and Hel- pers.	Total Number of Machine Men Em- ployed.
Brooke.....	5	31	389,609	475	73	548
Hancock.....	1	4	36,092	50	8	58
Marion.....	19	143	1,992,506	1,001	246	1,247
Marshall.....	5	26	207,005	223	32	255
Ohio.....	3	7	101,557	151	14	165
Harrison.....	41	203	1,893,072	1,143	305	1,448
Lewis.....	1	4	13,780	35	8	43
Upshur.....	2	4	22,831	35	8	43
Barbour.....	8	44	383,289	231	57	288
Monongalia.....	6	13	42,393	45	13	58
Preston.....	11	45	145,705	250	41	291
Taylor.....	10	12	102,277	91	20	111
Grant.....	1	16	164,995	90	32	122
Mineral.....	1	3	24,663	33	6	39
Tucker.....	3	8	75,246	76	10	86
Mason.....	2	7	32,059	45	8	53
Putnam.....	1	2	4,990	20	4	24
Clay.....	1	2	18,476	28	9	37
Fayette.....	76	264	2,421,166	2,097	449	2,546
Kanawha.....	95	361	3,313,178	2,836	649	3,485
Nicholas.....	2	4	17,361	20	6	26
Raleigh.....	15	47	433,742	314	62	376
Mercer.....	5	13	79,450	48	22	70
McDowell.....	34	150	1,436,116	1,058	212	1,270
Lincoln.....	1	7	41,288	45	5	50
Logan.....	27	108	1,864,020	916	178	1,094
Mingo.....	28	146	1,162,398	785	273	1,058
Totals.....	404	1,674	16,419,264	12,141	2,750	14,891

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM, FOR THE
YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	No. of Mine Ma- chines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	No. of Machine Miners.	Number of Machine Runners and Help- ers.	Total No. Men Em- ployed by Machine Mining.
<i>Brooke County.</i>						
La Belle Coal Co.	Lewis No. 1	3	53,826	70	10	80
Beech Bottom Coal Co.	Beech Bottom No. 1	4	64,086	75	7	82
Lewis-Findley Coal Co.	Locust Grove	6	88,417	145	22	167
La Belle Iron Works.	La Belle Shaft	12	140,424	100	22	122
Rey Carbon Coal Co.	Rex No. 1	6	42,836	85	12	97
Totals.		31	389,600	475	73	548
<i>Hancock County.</i>						
The Marquet Coal Co.	No. 4	4	36,062	50	8	58
Totals.		4	36,062	50	8	58
<i>Marion County.</i>						
Fairmont Coal Co.	Murray	3	26,059	15	6	21
Fairmont Coal Co.	Montana	7	98,509	48	10	58
Fairmont Coal Co.	Shaft	6	111,936	65	12	77
Fairmont Coal Co.	New England	10	113,878	80	20	100
Fairmont Coal Co.	Gaston	7	100,187	47	10	57
Fairmont Coal Co.	Monongah No. 2	2	41,714	18	6	24
Fairmont Coal Co.	Monongah No. 3		21,716	20	2	22
Fairmont Coal Co.	Monongah No. 6	8	82,546	40	16	56
Fairmont Coal Co.	Monongah No. 8	9	206,455	90	16	106
Fairmont Coal Co.	Shaver	4	160,944	69	8	77
Fairmont Coal Co.	Anderson	10	14,617			
Fairmont Coal Co.	Highland	4	70,842	30	8	38
Fairmont Coal Co.	Middleton	5	89,758	45	10	55
Fairmont Coal Co.	Chiefton	6	100,546	43	12	55
Fairmont Coal Co.	Hutchinson	3	70,491	44	6	50
Georges Creek Coal & Iron Co.	Chatham Shaft	22	241,164	150	40	190
New Central Coal Co.	Stafford	19	220,198	65	30	95
Federal Coal Co.	Federal	14	196,547	97	28	125
Parker Run Coal & Coke Co.	Parker Run	4	24,379	35	6	41
Totals.		143	1,992,506	1,001	246	1,247

Marshall County.

Hitchman Coal & Coke Co.	10	132,049	150	16	166
Wheeler Steel & Iron Co.	4	37,448	28	4	32
Glendale Coal Co.	4	7,302	14	4	18
Mound Coal Co.	6	21,420	19	6	25
Bituminous Coal Co. of America	2	8,777	12	2	14
Totals	26	207,005	223	32	255

Ohio County.

Richland Coal Co.	4	89,285	110	10	120
Elm Grove Coal Co.	2	9,026	41	4	45
J. N. Creighton	1	3,246			

Totals

Totals	7	101,557	151	14	165
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Harrison County.

Clarksburg Fuel Co.	4	35,946	18	5	23
Clarksburg Fuel Co.	5	101,695	60	8	68
Clarksburg Fuel Co.	15	52,092	35	8	43
Clarksburg Fuel Co.	4	30,070	13	6	19
Clarksburg Fuel Co.	7	40,245	18	14	32
Fairmont Coal Co.	1	6,572	6	2	8
Fairmont Coal Co.	7	115,283	63	21	90
Fairmont Coal Co.	5	44,828	28	10	38
Fairmont Coal Co.	3	46,078	30	4	34
Fairmont Coal Co.	2	55,914	55	10	65
Fairmont Coal Co.	5	41,963	42	10	52
Fairmont Coal Co.	3	42,195	30	4	34
Fairmont Coal Co.	12	98,324	40	24	64
Fairmont Coal Co.	2	27,047	11	4	15
Fairmont Coal Co.	4	42,834	22	6	28
Fairmont Coal Co.	17	30,338	20	8	34
Fairmont Coal Co.	7	50,007	26	8	34
Pittsburg & Fairmont Fuel Co.	3	25,980	18	4	22
Pittsburg & Fairmont Fuel Co.	7	63,027	34	8	42
Pittsburg & Fairmont Fuel Co.	4	33,402	18	4	22
Pittsburg & Fairmont Fuel Co.	5	42,221	13	8	32
Virginia-Maryland Coal Corporation	4	26,826	14	6	20
Cook Coal & Coke Co.	8	70,547	25	12	37
Corona Coal & Coke Co.	3	71,325	35	6	41
Meadow Brook Coal & Coke Co.	2	61,449	43	5	48
Harrison County Coal Co.	10	123,167	50	14	64
W. B. Ginton Coal Co.	1	5,110	7	2	9
Roseland Coal Co.	9	2,700	10	4	14
Monroe Colliery Co.	1	19,025	18	2	20
Maderia-Hill-Clark Coal Co.	2	53,248	20	4	24
Maderia-Hill-Clark Coal Co.	2	5,310	10	2	12
Maderia-Hill-Clark Coal Co.	9	66,361	52	12	64

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM, FOR THE
YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Number of Mine Ma- chines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	Number of Machine Runners and Help- ers.	Total No. of Men Employed by Ma- chine Min- ing.
<i>Harrison County--Con't.</i>					
Maderia-Hill-Clark Coal Co.	New Chieftain and Ran- dolph	7	78,140	70	86
Maderia-Hill-Clark Coal Co.	O' Gara	7	59,278	50	60
O' Gara Coal Mining Co.	Pitcairn	3	57,094	41	47
Pitcairn Coal Co.	Marshall	7	24,581	40	50
Marshall Coal Co.	Hutchinson	12	142,829	52	70
Hutchinson Fuel & Supply Co.					
Totals		203	1,893,072	1,143	1,448
<i>Lewis County.</i>					
Jacksonville Coal & Coke Co.	Sarah B. No. 3	4	13,780	35	43
Totals		4	13,780	35	43
<i>Upshur County.</i>					
Red Rock Fuel Co.	Nos. 1 and 2	4	22,831	35	43
Totals		4	22,831	35	43
<i>Barbour County.</i>					
Moriden Coal Mining Co.	Nos. 1, 2 and 4	5	32,655	40	44
Tygart's River Coal Co.	Arden	6	36,552	25	29
Fairmont Coal Co.	Berryburg	14	100,210	44	63
Grafton Fuel Co.	Lillian No. 1	4	19,300	20	28
The Century Coal Co., of W. Va.	Century No. 1	13	149,855	17	95
Midland Coal & Coke Co.	Midland	2	44,617	25	29
Totals		44	383,289	231	288
<i>Monongalia County.</i>					
Fairmont Coal Co.	Beechwood	3	14,534	12	18
Elkins Coal & Coke Co.	Sabratton	1	642	4	8
Elkins Coal & Coke Co.	Nos. 1, 2 and 3	3	17,209	10	13
Cornellsville Basin Coke Co.		6	10,008	19	19
Totals		13	42,393	45	58

NAME OF COMPANY.	NAME OF MINE.	Number of Mine Ma- chines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	Number of Machine Runners and Helpers.	Total No. Men Em- ployed by Machine Mining.
<i>Clay County.</i>					
Elk River Coal & Lumber Co.	Dundon	2	18,476	4	32
Totals		2	18,476	4	32
<i>Fayette County.</i>					
Sunday Creek Co.	No. 11	5	164,227	10	112
Sunday Creek Co.	No. 112	6	174,398	12	127
Sunday Creek Co.	No. 114	5	98,973	12	82
Sunday Creek Co.	No. 115	5	167,063	10	102
The Columbus Iron & Steel Co.	No. 1	1	102,784	48	60
Kanawha Gas Coal Co.	Eagle	1	1,420	5	7
W. R. Johnson & Co.	Oakland	4	26,781	30	36
Boomer Coal & Coke Co.	No. 1	6	51,229	114	126
Boomer Coal & Coke Co.	No. 2 North	9	112,487	84	96
Boomer Coal & Coke Co.	No. 2 South	5	76,082	45	51
Boomer Coal & Coke Co.	No. 3	9	148,452	116	130
Paint Creek Collieries Co.	Hickory Camp	2	36,673	35	39
Eureka Colliery Co.	No. 13	1	2,642	10	12
Eureka Colliery Co.	No. 14	2	4,575	10	14
W. R. Johnson	Splint No. 6	1	1,888	2	4
Mecca Coal & Coke Co.	No. 2	1	5,282	10	12
The Carver Bros. Co.	Diamond	3	33,443	60	66
M. B. Coal Co.	No. 5	2	18,961	16	18
M. B. Coal Co.	Elk Ridge No. 1	3	49,982	60	64
M. B. Coal Co.	Elk Ridge No. 2	3	25,561	34	38
The Mount Carbon Co., Ltd.	Vulcan	2	10,311	6	10
Great Kanawha Colliery Co.	Brewster, Digby & Edwards	2	43,044	7	24
Mill Creek Colliery Co.	Mill Creek	3	15,615	17	24
The Gauley Mountain Coal Co.	Nova Scotia & Turkey Creek	7	47,882	20	34
Sunbeury Coal & Coke Co.	Sunny Side	21	10,215	75	95
Gaymont Colliery Co.	Gaymont	3		20	26
Beury—New River Coal Co.	Elmo	2			
Michigan Coal Co.	Michigan	3	12,024	10	14
Brown Coal Co.	Brown	2	5,364	10	14
Nuttallburg Collieries Co.	Nuttallburg	4	61,005	20	24
Keeney's Creek Colliery Co.	Nuttallburg & Keeney's Crk.	4	19,386	25	31
Keeney's Creek Colliery Co.	Smokeless	4	15,000	10	14
Keeney's Creek Colliery Co.	Boone	3	30,000	4	31

c Not in use.

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM. FOR THE
YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Number of Machine Miners.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	Number of Machine Runners and Helpers.	Total No. of Men Employed by Ma- chine Mining.
Kanawha County.—Con't.					
Sunday Creek Coal Co.	No. 104	4	47,507		60
Sunday Creek Coal Co.	No. 105	11	123,337		100
Sunday Creek Coal Co.	No. 109	5	51,339		50
New Cedar Grove Coal & Brick Co.	No. 1 & 2	2	10,763		8
Kellys Creek Colliery Co.	No. 1	4	49,875		55
Kellys Creek Colliery Co.	No. 3 & 4	9	137,129		110
Hughes Creek Coal Co.	No. 2 & 3	8	56,946		90
Cannelton Coal Co.	No. 2	3	15,276		14
The Marmet Coal Co.	Monarch	13	70,290		51
The Marmet Coal Co.	Butler No. 2	2	4,612		3
The Marmet Coal Co.	Butler No. 5	4	22,530		20
The Marmet Coal Co.	Butler No. 1	3	9,388		13
Oleott Coal & Iron Co.	Oleott No. 1	2	31,002		27
Oleott Coal & Iron Co.	Oleott No. 2	2	13,654		20
Winifrede Coal Co.	South	5	30,128		45
Winifrede Coal Co.	West	3	19,650		35
Winifrede Coal Co.	New Coalburg	3	9,353		20
Dry Branch Coal Co.	Gas	4	34,776		55
Dry Branch Coal Co.	Coalburg	2	4,557		40
Dry Branch Coal Co.	Belmont	1	16,989		15
Coalburg Colliery Co.	Ronda	4	33,955		40
Wyatt Coal Co.	Oakley	4	20,046		30
Wyatt Coal Co.	Berlin	4	43,758		30
Wyatt Coal Co.	South Horton	3	29,396		21
Wyatt Coal Co.	Wilton	3	60,084		60
Persinger Coal Co.	No. 1	1	3,181		8
Lapoint Mining Co.	No. 3	3	8,057		10
Lapoint Mining Co.	No. 2	3	48,392		35
Holley & Stephenson Coal & Coke Co.	No. 5	8	58,034		41
Holley & Stephenson Coal & Coke Co.	Wake Forest	3	60,000		48
Walker Coal Co.	North	3	44,788		34
Carbon Coal Co.	South	1	31,175		40
Carbon Coal Co.	South Splint	5	31,436		43
Carbon Coal Co.	No. 1	3	47,175		20
Republic Coal Co.	No. 2	3	38,700		34
Republic Coal Co.	No. 3	3	51,268		35
Republic Coal Co.	No. 3	3	37,020		32
		3			38
		3			28

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM, FOR THE
YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Number of Mine Machines.	Tons of Coal Produced by Machine (Tons of 2,240 lbs.)	Number of Machine Miners.	Number of Machine Runners and Helpers.	Total No. Men Em- ployed by Machine Mining.
<i>Nicholas County.</i>						
Kentucky Coal & Lumber Co.	Mt. Carmel	2	3,750	10	2	12
Raven Collieries	Raven	2	13,611	10	4	14
Totals		4	17,361	20	6	26
<i>Raleigh County.</i>						
Big Coal Co.	Dorothy	7	163,721	101	14	115
New River Collieries Co.	Eccles No. 11	1	15,265	2	2	4
McKell Coal & Coke Co.	Oswald & Sidney	5	26,524	25	8	33
McKell Coal & Coke Co.	Graham	3	71½	4	2	6
Stonewall Coal & Coke Co.	Terry	* 1				
Raleigh Coal & Coke Co.	No. 3	2	34,800	20	4	24
Raleigh Coal & Coke Co.	No. 6	5	98,722	60	10	70
Cranberry Fuel Co.	Skelton	4	25,271			
Cranberry Fuel Co.	Cranberry	2	2,214	3	2	5
Cranberry Fuel Co.	Prosperity	3	2,214	4	4	8
Price Hill Fuel Co.	Price Hill	8	16,620	30		30
Slab Fork Coal Co.	Nos. 1, 2, 3 & 4	7	47,675	40	14	54
Totals		48	433,742	289	60	349
<i>Mercer County.</i>						
American Coal Co. of Alleghany Co.	Piedmont Nos. 1 & 2	9	60,451	30	14	44
The Weyanoke Coal & Coke Co.	Weyanoke	3	17,115	14	4	18
The Weyanoke Coal & Coke Co.	Elin	1	1,884	4	2	6
Wenonah Coal & Coke Co.	Wenonah	* 1				
Totals		14	79,450	48	20	68
<i>McDowell County.</i>						
Indian Ridge Coal & Coke Co.	Indian Ridge	2	19,255	8		8
McDowell Coal & Coke Co.	McDowell	4	38,705	14	6	20
New River & Pocahontas Consolidated Coal Co.	Nos. 1, 2 & 3	17	259,345	125	24	149
Mohawk Coal & Coke Co.	Mohawk	8	45,031	30	10	40
Virginia-Pocahontas Coal Co.	No. 5	1	446	5	2	7

*Not in use.

Big Sandy Coal & Coke Co.	Big Sandy	2	4,883	7	4	11
Twin Branch	Twin Branch	10	40,025	10		10
Maher Coal & Coke Co.	Nos. 1 & 2	13	37,580	5		5
J. B. B. Collieries Co.	J. B. B. No. 2	12	25,406	6	4	10
J. B. B. Collieries Co.	J. B. B. No. 3	1	4,357	2	4	4
J. B. B. Collieries Co.	J. B. B. No. 4	2	4,847	4	2	6
J. B. B. Collieries Co.	J. B. B. No. 5	4	13,076	9	2	11
Superior-Pocahontas Coal Co.	No. 4	2	6,408	10	2	12
The Pando Coal Co.	Pando	3	31,537	30	8	38
Atlas-Pocahontas Coal Co.	Antler Nos. 3 & 4	6	16,180	15	10	25
Owens Coal Co.	Ino & McClaren	9	60,929	50	63	63
Jed Coal & Coke Co.	Jed	4	83,000	140	12	152
United States Coal & Coke Co.	No. 1	5	123,263	87	10	107
United States Coal & Coke Co.	No. 3	5	35,308	65	12	77
United States Coal & Coke Co.	No. 4	1	16,332	15	4	19
United States Coal & Coke Co.	No. 5	2	30,580	15	2	17
United States Coal & Coke Co.	No. 9	1	2,987	8	2	10
United States Coal & Coke Co.	No. 10	5	65,305	65	10	75
United States Coal & Coke Co.	No. 11	6	143,662	99	17	116
United States Coal & Coke Co.	No. 12	3	38,489	70	10	80
Black Wolf Coal & Coke Co.	No. 4	4	57,546	30	8	38
Welch Coal & Coke Co.	Welch	2	9,000	6	4	10
Page Coal & Coke Co.	Nos. 1, 2 & 3	6				
Hemphill Colliery Co.	Hemphill	9	5,000	5	4	9
Middle States Coal & Coke Co.	No. 11	5	118,128	65	12	77
Dixon-Pocahontas Fuel Co.	North	4	23,500	25	6	31
Dixon-Pocahontas Fuel Co.	South	2	16,266	15	4	19
Bottom Creek Coal & Coke Co.	Bottom Creek	1	18,567	8	10	10
Powhatan Coal & Coke Co.	Powhatan	2	5,500	10	4	14
Totals		156	1,436,116	1,053	210	1,243
Branchland Coal Co.	Branchland	7	41,288	45	5	50
Totals		7	41,288	45	5	50
Stone Branch Coal Co.	Nos. 1, 2, 3, 4, 5, 6, 7 & 8	6	34,809	30	8	38
Big Creek Coal Co.	Big Creek	3	18,749	25	4	29
E. R. Johnson Coal Mining Co.	Johnson	2	10,770	12	4	16
Draper Coal & Coke Co.	Draper	8	62,207	22	17	39
H. T. Wilson Coal Co.	Wilson	8	42,929	30	14	44
Fort Branch Coal Co.	Fort Branch	5	27,678	12	6	18
Price Coal Co.	Price	6	45,268	20	12	32
Rex Coal & Coke Co.	Rex	12	30,117	15	10	25
The Logan Coal Co.	Logan	12	51,322	25	12	37
The Ethel Coal Co.	Ethel	8	41,801	30	12	42

*Not in use.

COMPANIES OPERATING MINE MACHINES AND THE QUANTITY OF COAL PRODUCED BY THEM, FOR THE YEAR ENDING JUNE 30TH, 1909.						
NAME OF COMPANY.	NAME OF MINE.	Number of Mine Machines.	Tons of Coal Produced by Machine (Tons of 2,240 lbs.)	Number of Machine Miners.	Number of Machine Runners and Helpers.	Total No. of Men Employed by Machine Mining.
<i>Logan County.—Cont'd.</i>						
The Monitor Coal & Coke Co.	Monitor.....	5	128,211	63	8	71
The Monitor Coal & Coke Co.	Beechwood.....	2	30,730	34	4	38
The Yuma Coal & Coke Co.	Yuma.....	3	53,328	25	5	30
The Gay Coal & Coke Co.	Gay.....	3	84,823	24	6	30
Gora Coal & Coke Co.	Cora.....	3	58,055	33	4	37
United States Coal & Oil Co.	Island Creek No. 1.....	7	332,767	171	14	185
United States Coal & Oil Co.	Island Creek No. 2.....	8	391,400	177	16	193
United States Coal & Oil Co.	Island Creek No. 3.....	4	122,220	53	8	61
United States Coal & Oil Co.	Island Creek No. 4.....	3	97,747	52	6	58
United States Coal & Oil Co.	Island Creek Nos. 5 & 6.....	4	160,739	63	8	71
Totals.....		108	1,864,020	916	178	1,084
<i>Mingo County.</i>						
Pearl Coal Mining Co.	Haggerty.....	2	3,382	20	3	23
Naughtuck Coal Co.	Blocton.....	6	12,464	30	12	42
Warfield Coal Co.	Warfield.....	4	2,226	16	8	24
Lemmon Coal Co.	Lemmon.....	4	5,042	12	8	20
Chattahoo Colliery Co.	Chattahoo.....	10	82,771	30	14	44
The Buffalo Collieries Co.	Buffalo.....	10	73,779	35	18	53
Lingoheaven Coal Co.	Nos. 5, 6, 7 & 8.....	6	27,843	30	16	46
Howard Colliery Co.	Howard.....	10	86,579	49	16	65
Winifrede Consolidated Coal Co.	Sugar Tree.....	5	35,713	20	8	28
Williamson Coal & Coke Co.	No. 3.....	6	31,353	38	16	54
Rawl Coal & Coke Co.	No. 1.....	4	8,925	10	6	16
Rawl Coal & Coke Co.	No. 2.....	3	7,144	6	4	10
Marvin Coal Co.	Marvin.....	6	58,061	30	10	40
White Star Mining Co.	Commercial.....	5	2,666	10	10	20
Red Jacket Consolidated Coal Co.	Rutherford.....	4	54,331	30	8	38
Red Jacket Consolidated Coal Co.	Logan.....	1	11,560	3	2	5
Red Jacket Consolidated Coal Co.	Red Jacket.....	8	80,427	30	16	46
Thacker Coal & Coke Co.	No. 2.....	4	22,342	15	5	20
Thacker Fuel Co.	No. 3.....	9	263,280	45	18	113
Thacker Coal & Coke Co.	No. 10.....	4	40,053	24	21	45
Glen Alum Coal Co.	Nos. 1 & 2.....	12	146,812	100	24	124
War Eagle Coal Co.	Pappoose.....	7	30,869	60	8	68
War Eagle Coal Co.	Mephisto.....	7	65,766	75	10	85

SUMMARY OF THE NUMBER AND KINDS OF MINING MACHINES
IN USE IN THE STATE FOR THE YEAR ENDING
JUNE 30TH, 1909.

COUNTY.	Electrical Mine Machines.							Compressed Air Mine Machines.				Total No. of Machines.	Tons of Coal Produced by Machines. (Tons of 2,240 lbs.)
	Jeffrey.	Morgan-Gardner.	Goodman.	Sullivan.	Ingersoll-Rand.	Harrison.	Pneum-electric.	Harrison.	Ingersoll-Rand.	Sullivan.	Jeffrey.		
Brooke.....	28			3								31	389,609
Hancock.....	4											4	36,092
Marion.....	51	23		2	6	2		21	19	7	12	143	1,992,506
Marshall.....	20							6				26	207,005
Ohio.....	6		1									7	101,557
Harrison.....	70	26	6				1	55	29	17		204	1,893,072
Lewis.....								4				4	13,780
Upshur.....	4											4	22,831
Barbour.....	20	8	1	5				4	3		4	45	383,289
Monongalia.....	6	6		1								13	42,393
Preston.....	2	6	6	7				18	2		4	45	145,705
Taylor.....	1	5	3	2			2					13	102,277
Grant.....									15		1	16	164,995
Mineral.....	3											3	24,603
Tucker.....									4	4		8	75,246
Mason.....	2	5										7	32,059
Putnam.....		2										2	4,990
Clay.....				2								2	18,476
Fayette.....	78	24	48	42		5	2	63				262	2,421,166
Kanawha.....	142	158	27	12				19	3			361	3,313,178
Nicholas.....		4										4	17,361
Raleigh.....	17	9	1	3		1	3	11		2		47	433,742
Mercer.....	3	2							9			14	79,450
McDowell.....	13	6	12	44				16	59			150	1,436,116
Lincoln.....								7				7	41,288
Logan.....	37	5	7	4			1	43		11		108	1,864,020
Mingo.....	25	12		1	4			85	12	7		146	1,162,398
Totals.....	530	291	108	123	10	8	9	352	153	50	21	1,655	16,419,264

Parker Run Coal & Coke Co										4	7	12	143	24,379
Totals										4	7	12	143	1,092,506
<i>Marshall County.</i>														
Hitchman	10													132,049
Wheeling Steel & Iron Co	4													37,448
Glendale Coal Co	4													7,302
Mound Coal Co														21,429
Bituminous Coal Co. of America	2													8,777
Totals										26				207,005
<i>Ohio County.</i>														
Richland	4													89,285
Elm Grove	2													9,026
J. S. Creighton		1												3,246
Totals										7				101,557
<i>Harrison County.</i>														
Clarksburg Fuel Co.	4													35,946
Clarksburg Fuel Co.														101,085
Clarksburg Fuel Co.	2													32,092
Clarksburg Fuel Co.														30,079
Clarksburg Fuel Co.														40,245
Clarksburg Fuel Co.	1													6,572
Fairmont Coal Co.	7													115,289
Fairmont Coal Co.	3													44,828
Fairmont Coal Co.	3													46,078
Fairmont Coal Co.	2													55,914
Fairmont Coal Co.	3													41,089
Fairmont Coal Co.	12													98,324
Fairmont Coal Co.	3													42,195
Fairmont Coal Co.	2													27,047
Fairmont Coal Co.	4													42,834
Fairmont Coal Co.														30,338
Fairmont Coal Co.														50,007
Fairmont Coal Co.	3													25,980
Fairmont Coal Co.	1													
Fairmont Coal Co.	1													63,027
Pittsburg & Fairmont Fuel Co	5													33,402
Pittsburg & Fairmont Fuel Co	1													42,221
Pittsburg & Fairmont Fuel Co	1													26,826
Pittsburg & Fairmont Fuel Co	1													70,347
Pittsburg & Fairmont Fuel Co	4													71,325
Virginia-Maryland Coal Corporation.														61,449
Cook Coal & Coke Co.														123,167
Corona Coal & Coke Co.														
Meadowbrook Coal & Coke Co														
Erte														

*Not in use.

NUMBER AND KINDS OF MINING MACHINES IN USE IN THE STATE FOR THE YEAR ENDING JUNE 30th, 1909.

NAME OF COMPANY.	NAME OF MINE.	Electrical Mine Machines.						Compressed Air Mine Machines.				Total Number of Machines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)
		Jeffrey.	Morgan-Gardner.	Goodman.	Sullivan.	Ingersoll-Rand.	Harrison.	Pneumatic.	Harrison.	Ingersoll-Rand.	Sullivan.	Jeffrey.	
<i>Harrison County.—Con't.</i>													
Harrison County Coal Co.	Overholt												5,110
W. B. Guntion Coal Co.	Overholt & Phoenix												2,700
Rose-Bud Coal Co.	Rose-Bud												19,025
Monroe Colliery Co.	Sylvester												53,248
Madeira-Hill-Clark Coal Co.	Goff												5,310
Madeira-Hill-Clark Coal Co.	Waldo												66,331
Madeira-Hill-Clark Coal Co.	New Chieftain & Randolph												78,140
O'Gara Coal Mining Co.	O'Gara												59,278
Pitcairn Coal Co.	Pitcairn												57,004
Marshall Coal Co.	Marshall												24,581
Hutchinson Fuel & Supply Co.	Hutchinson												142,829
Totals		70	26	6				1		29	17		1,883,072
<i>Lewis County.</i>													
Jacksonville Coal & Coke Co.	Sarah B. No. 3												13,780
Totals													13,780
<i>Upshur County.</i>													
Red Rock Fuel Co.	Nos. 1 & 2	4											22,831
Totals		4											22,831
<i>Barbour County.</i>													
Meriden Coal Mining Co.	Meriden Nos. 1, 2 & 4	3	1	1									32,655
Tygart's River Coal Co.	Arden												36,552
Fairmont Coal Co.	Berryburg	11											100,210
The Century Coal Co. of West Virginia.	Century No. 1	6											149,955
Grafton Fuel Co.	Lillian No. 1												19,300
Miller Coal & Coke Co.	Sara												*1

*Not in use.

[illegible]

*Not in use.

NUMBER AND KINDS OF MINING MACHINES IN USE IN THE STATE FOR THE YEAR ENDING JUNE 30th, 1909.

NAME OF COMPANY.	NAME OF MINE.	Electrical Mine Machines.						Compressed Air Mine Machines.				Total Number of Machines.	Tons of Coal Produced by Machines (Tons of 2,240 lbs.)	
		Jeffrey.	Morgan-Gardner.	Goodman.	Sullivan.	Ingersoll-Rand.	Harrison.	Ingersoll-Rand.	Sullivan.	Jeffrey.				
<i>McDowell County—Cont.</i> United States Coal & Coke Co. United States Coal & Coke Co. United States Coal & Coke Co. United States Coal & Coke Co. United States Coal & Coke Co. Black Wolf Coal & Coke Co. Welch Coal & Coke Co. Hemphill Colliery Co. Middle States Coal & Coke Co. Dixon-Pocahontas Fuel Co. Dixon-Pocahontas Fuel Co. Bottom Creek Coal & Coke Co. Powhatan Coal & Coke Co.	No. 5				2							2	39,590	
	No. 9	1											1	2,987
	No. 10				5							5	65,305	
	No. 11				6							6	143,462	
	No. 12				3							3	38,449	
	No. 4			4								4	57,546	
	Welch						2				2	2	9,000	
	Hemphill												5,000	
	Middle States Coal & Coke Co.	3			2							2	118,128	
	Dixon-Pocahontas Fuel Co.		2									4	29,500	
	Bottom Creek Coal & Coke Co.	1										1	16,296	
	Powhatan											2	18,567	
	Totals		13	6	12	44		16	59			150	1,436,116	
<i>Lincoln County.</i> Branchland Coal Co.	Branchland						7				7		41,288	
	Totals						7				7		41,288	
<i>Logan County.</i> Stone Branch Coal Co. Big Creek Coal Co. E. R. Johnson Coal Mining Co. Draper Coal & Coke Co. H. T. Wilson Coal Co. Fort Branch Coal Co. Price Coal Co. Rex Coal & Coke Co. The Logan Coal Co. The Ethel Coal Co.	Nos. 1, 2, 3, 4, 5, 6, 7 & 8	4	2									6	34,889	
	Big Creek	3											3	18,749
	Johnson			1									2	10,770
	Draper	1										2	62,207	
	Wilson						6				6	8	42,929	
	Fort Branch						5				5	5	27,678	
	Price						6				6	6	45,268	
	Rex						6				6	12	39,117	
	Logan						7				7	7	51,322	
	Ethel						7				7	8	41,891	

The Monitor Coal & Coke Co.	Monitor	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2</
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TABLE SHOWING THE COMPARATIVE STATEMENT OF THE COKE
PRODUCTION FOR 1908 AND 1909.
(Tons of 2000 lbs.)

COUNTY.	1909	1908	Increase of 1909 Over 1908	Decrease of 1909 Under 1908
Marion.....	65,213	105,743		40,530
Harrison.....	275	1,092		817
Upshur.....		4,010		4,010
Barbour.....	27,203	44,359		17,156
Monongalia.....	117,254	76,386	40,868	
Preston.....	175,915	138,644	37,271	
Taylor.....	5,302		5,302	
Randolph.....	128,401	129,273		872
Tucker.....	97,684	149,229		51,545
Fayette.....	525,154	415,425	109,729	
Kanawha.....		12,124		12,124
Raleigh.....		497		497
Mercer.....	220,681	219,597	1,084	
McDowell.....	1,733,479	1,681,884	51,595	
Totals.....	3,096,561	2,978,263	245,849	127,551

ORDER IN THE PRODUCTION OF COKE.
1897—1909.

COUNTIES.	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
McDowell.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Fayette.....	2	2	2	2	2	2	2	2	2	2	2	2	2
Tucker.....	3	3	5	4	3	3	3	3	4	4	4	4	7
Mercer.....	5	4	3	5	4	5	5	4	3	3	3	3	3
Marion.....	4	5	4	3	5	4	4	5	6	6	6	7	8
Preston.....	7	6	6	6	9	9	8	7	7	7	7	5	4
Kanawha.....	6	7	8	7	6	7	10	10	9	9	11	10	
Randolph.....				12	7	6	6	6	5	5	5	6	5
Monongalia.....	9	9	11	8	11	8	9	8	8	8	8	8	6
Harrison.....		10	10	9	10	10	7	11		11	10	12	11
Barbour.....		11	9	11	8	11	11	9	10	10	9	9	9
Raleigh.....	8	8	7	10								13	
Upshur.....											12	11	
Taylor.....											13		10

NUMBER OF COKE OVENS NOT IN USE—1909.

COUNTY.	No. of Coke Ovens Not in Use.	Field in which Located.
Brooke.....	6	Upper Monongahela.
Marion.....	829	Upper Monongahela.
Harrison.....	200	Upper Monongahela.
Upshur.....	36	Upper Monongahela.
Barbour.....	155	Upper Monongahela.
Monongalia.....	141	Upper Monongahela.
Preston.....	440	Upper Monongahela.
Taylor.....	18	Upper Monongahela.
Randolph.....	246	Upper Monongahela.
Tucker.....	531	Upper Potomac.
Fayette.....	1,331	New River.
Kanawha.....	90	New River.
Raleigh.....	55	New River.
Mercer.....	1,029	Pocahontas.
McDowell.....	5,011	Pocahontas.
Total.....	10,118	

NUMBER OF COKE OVENS NOT IN USE—1909.

NAME OF COMPANY.	NAME OF MINE.	No. of Coke Ovens Not in use.
<i>Brooke County.</i>		
La Belle Iron Works.....	La Belle Shaft.....	6
Totals		6
<i>Marion County.</i>		
Fairmont Coal Co.....	Murray.....	96
Fairmont Coal Co.....	Montana.....	134
Fairmont Coal Co.....	Shaft.....	36
Fairmont Coal Co.....	New England.....	94
Fairmont Coal Co.....	Gaston.....	89
Fairmont Coal Co.....	Monongah No. 6.....	162
Fairmont Coal Co.....	Monongah No. 8.....	79
Fairmont Coal Co.....	Hutchinson.....	50
Georges Creek Coal & Iron Co.....	Chatham Shaft.....	12
Federal Coal & Coke Co.....	Federal.....	60
Virginia-Pittsburg Coal & Coke Co.....	Kingmont.....	17
Total		829
<i>Harrison County.</i>		
Fairmont Coal Co.....	Enterprise.....	60
Fairmont Coal Co.....	Gypsy.....	40
Fairmont Coal Co.....	Meadowbrook.....	50
Fairmont & Baltimore Coal & Coke Co.....	Fairmore.....	30
Hutchinson Fuel & Supply Co.....	Nos. 1 & 2.....	20
Total		200
<i>Upshur County.</i>		
Buckhannon River Coal Co.....	Florence.....	36
Total		36
<i>Barbour County.</i>		
Meriden Coal Mining Co.....	Nos. 1, 2 & 4.....	50
Miller Coal & Coke Co.....	Sara.....	13
Davis Colliery Co.....	No. 4.....	51
Midland Coal & Coke Co.....	Midland.....	41
Total		155
<i>Monongalia County.</i>		
Opekiska Coal & Coke Co.....	Opekiska.....	20
Fairmont Coal Co.....	Beechwood.....	46
Connellsville Basin Coke Co.....	Nos. 1, 2 & 3.....	75
Total		141
<i>Preston County.</i>		
The Austen Coal & Coke Co.....	No. 1.....	85
Gorman Coal & Coke Co.....	No. 2.....	40
Hamilton Coal & Coke Co.....	Newburg Shaft.....	90
Orr Coal & Coke Co.....	Vulcan.....	50
Manufacturers Coal & Coke Co.....	No. 2.....	64
Elkins Coal & Coke Co.....	Bretz.....	92
Preston County Coke Co.....	Cascade.....	19
Total		440
<i>Taylor County.</i>		
Winona Coal & Coke Co.....	Winona No. 1.....	18
Total		18
<i>Randolph County.</i>		
Davis Coal & Coke Co.....	Weaver No. 1.....	121
Davis Colliery Co.....	Coalton No. 1.....	100
Davis Colliery Co.....	Harding No. 3.....	25
Total		246
<i>Tucker County.</i>		
Davis Coal & Coke Co.....	Coketon No. 37.....	342
Cumberland Coal Co.....	No. 5.....	125

NUMBER OF COKE OVENS NOT IN USE—1909.

NAME OF COMPANY.	NAME OF MINE.	No. of Coke Ovens Not in use.
<i>Tucker County.</i> —Con't.		
Davis Coal & Coke Co	Thomas No. 34	8
Davis Coal & Coke Co	Coketon No. 36	56
Total		531
<i>Fayette County.</i>		
Sunday Creek Co	No. 115	66
The Columbus Iron & Steel Co	No. 1	4
The Mount Carbon Co., Ltd.	Vulcan	108
Great Kanawha Colliery Co	Edwards	39
Loup Creek Colliery Co	Ansted & Eagle	212
The Gauley Mountain Coal Co	Nova Scotia	42
Gaymont Colliery Co	Gaymont	36
Sunbury Coal & Coke Co	Sunny Side	18
The Fayette Coal & Coke Co	Fayette	12
Fire Creek Coal & Coke Co	Fire Creek	48
Greenwood Coal & Coke Co	Greenwood	45
Quinnimont Coal Co	Big Q	37
The Low Moor Iron Co., of Virginia ..	Kaymoor No 1	22
Elverton Coal & Coke Co	Elverton	51
New River & Pocahontas Consolidated Coal Co ..	Minden No. 1	100
New River & Pocahontas Consolidated Coal Co ..	Minden No. 2	100
New River & Pocahontas Consolidated Coal Co ..	Minden No. 5	100
New River Collieries Co	Brooklyn	1
New River Collieries Co	Rush Run	52
New River Collieries Co	Sun Nos. 1, 2 & 3	95
Harvey Coal & Coke Co	Nos. 1 & 2	28
Collins Colliery Co	Nos. 1 & 2	50
Macdonald Colliery Co	Macdonald	40
Turkey Knob Coal Co	Turkey Knob	25
Total		1,331
<i>Kanawha County.</i>		
Cannelton	Cannelton No. 2	90
Total		90
<i>Raleigh County.</i>		
Raleigh Coal & Coke Co	Nos. 1, 2 & 3	55
Total		55
<i>Mercer County.</i>		
Mill Creek Coal & Coke Co	Coaldale	90
Mill Creek Coal & Coke Co	E. & W. Mill C'k & Tug River ..	100
Buckeye Coal & Coke Co	North & South	132
Booth-Bowen Coal & Coke Co	Booth-Bowen	107
Pocahontas Consolidated Collieries Co., Inc.	Caswell, Hemlock & Elkhorn ..	191
Louisville Coal & Coke Co	Louisville & Goodwill	175
Crystal Coal & Coke Co	Crystal	30
American Coal Co. of Alleghany Co	Pinnacle N. & S	200
The Thomas Coal Co	Thomas	4
Total		1,029
<i>McDowell County.</i>		
Algoma Coal & Coke Co	Piney & Northfork	136
Elk Ridge Coal & Coke Co	Elk Ridge	110
Gilliam Coal & Coke Co	Gilliam	137
Indian Ridge Coal & Coke Co	Indian Ridge	100
Roanoke Coal & Coke Co	Roanoke	67
Arlington Coal & Coke Co	Arlington	98
Greenbrier Coal & Coke Co	Greenbrier	132
McDowell Coal & Coke Co	McDowell	130
Ashland Coal & Coke Co	Ashland & Monitor	360
Pocahontas Consolidated Collieries Co., Inc.	Cherokee	128
Pocahontas Consolidated Collieries Co., Inc.	Lick Branch	58
Pocahontas Consolidated Collieries Co., Inc.	Delta	60
Pocahontas Consolidated Collieries Co., Inc.	Shamokin	229
Pocahontas Consolidated Collieries Co., Inc.	Norfolk & Angle	139
Elkhorn Coal & Coke Co	Elkhorn	90
New River & Pocahontas Coal Co	No. 1	100
United States Coal & Coke Co	No. 1	325

NUMBER OF COKE OVENS NOT IN USE—1909.

NAME OF COMPANY.	NAME OF MINE.	No. of Coke Ovens Not in use.
<i>McDowell County.—Con't.</i>		
United States Coal & Coke Co.....	No. 2.....	210
United States Coal & Coke Co.....	No. 3.....	35
United States Coal & Coke Co.....	No. 4.....	2
United States Coal & Coke Co.....	No. 5.....	2
United States Coal & Coke Co.....	No. 6.....	58
United States Coal & Coke Co.....	No. 7.....	10
United States Coal & Coke Co.....	No. 8.....	13
Page Coal & Coke Co.....	Nos. 1, 2 & 3.....	370
Middle States Coal & Coke Co.....	No. 11.....	88
The Tidewater Coal & Coke Co.....	Tidewater.....	250
Bottom Creek Coal & Coke Co.....	Bottom Creek.....	147
Peerless Coal & Coke Co.....	Peerless.....	154
The Empire Coal & Coke Co.....	Empire.....	130
Shawnee Coal & Coke Co.....	Shawnee.....	113
Eureka Coal & Coke Co.....	Eureka.....	100
Pulaski Iron Co.....	Pulaski Nos. 1 & 2.....	40
Keystone Coal & Coke Co.....	Keystone Nos. 1 & 2.....	154
Lynchburg Coal & Coke Co.....	Lynchburg.....	113
Powhatan Coal & Coke Co.....	Powhatan.....	137
Upland Coal & Coke Co.....	No. 1.....	132
Houston Coal & Coke Co.....	Nos. 1 & 2.....	60
Crozer Coal & Coke Co.....	Nos. 1 & 2.....	254
Turkey Gap Coal & Coke Co.....	Turkey Gap.....	40
Total .....	.....	5,011

PRODUCTION OF COKE BY COUNTIES FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Coke Plants Reported.	Total Tons of Coal Used in Ovens. (Tons of 2,000 lbs.)	Total Tons of Coke Produced. (Tons of 2,000 lbs.)	Percentage of Yield.	Total No. of Coke Ovens Reported.	Total No. of Coke Ovens Reported Not in Use.	Average No. of Coke Ovens Operated During the Year.		Average No. of Days Ovens were Operated.	Number of Men Employed on Ovens.
							In County	Per Plant.		
Brooke.....	1	111,404	65,213	58.54	6	9	209	37	152	72
Marion.....	16	466	275	61.06	1,038	829				
Harrison.....	5				200	36				
Upshur.....	1				36					
Barbour.....	4	44,886	27,203	60.64	227	155	72	43	180	24
Monongalia.....	4	162,876	117,254	71.98	416	141	275	136	238	86
Preston.....	8	277,803	175,915	63.32	993	440	553	109	163	116
Taylor.....	1	8,839	5,302	60.00	30	18	12	12	225	3
Randolph.....	4	182,693	128,401	70.28	520	246	274	94	313	95
Tucker.....	5	196,826	116,920	59.40	773	531	242	95	200	110
Fayette.....	23	899,008	525,154	58.39	2,881	1,331	1,550	104	259	519
Kanawha.....	1				90	90				
Raleigh.....					55	55				
Mercer.....	9	389,251	229,681	56.69	1,846	1,029	817	84	221	309
McDowell.....	40	2,879,156	1,733,479	60.20	10,155	5,011	5,144	141	270	2,268
Totals.....	122	5,153,208	3,115,797	60.46	19,266	10,118	9,148	95	197	3,003

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Tons of Coal Used in Ovens (Tons of 2,000 lbs.)	Tons of Coke Produced (Tons of 2,000 lbs.)	Number of Coke Ovens Reported.	Average No. Ovens Used Per Plant.	Average No. Days Ovens were Operated.
<i>Marion County.</i>						
Fairmont Coal Co.	Murray	158	95			
Fairmont Coal Co.	Montana	5,211	3,127	150	16	62
Fairmont Coal Co.	Shaff			36		
Fairmont Coal Co.	New England			94		
Fairmont Coal Co.	Gaston	376	222	80		
Fairmont Coal Co.	Monongah No. 2	16,183	9,357			
Fairmont Coal Co.	Monongah No. 6	27,476	15,312	222	60	173
Fairmont Coal Co.	Monongah No. 8	17,878	9,677	90	20	212
Fairmont Coal Co.	Anderson	46	27			
Fairmont Coal Co.	Highland	523	308			
Fairmont Coal Co.	Middleton	834	492			
Fairmont Coal Co.	Chiefton	165	97			
Fairmont Coal Co.	Hutchinson	46	27			
Georges Creek Coal & Iron Co.	Chatham	21,525	12,812	75	63	226
Federal Coal & Coke Co.	Federal			67	50	290
The Virginia & Pittsburg Coal & Coke Co.	Kingmont	20,983	13,480			
Totals		111,404	65,213	892	37	152
<i>Harrison County.</i>						
Fairmont Coal Co.	Enterprise	466	275	60		
Fairmont Coal Co.	Gypsy			40		
Fairmont Coal Co.	Meadowbrook			50		
Fairmont & Baltimore Coal & Coke Co.	Farmore			30		
Hutchinson Fuel & Supply Co.	Nos. 1 and 2			20		
Totals		466	275	200		
<i>Upshear County.</i>						
Buckhannan River Coal Co.	Florence			36		
Total						
<i>Barbour County.</i>						
Meriden Coal Mining Co.	Meriden Nos. 1, 2 & 4			50		
Miller Coal & Coke Co.	Sara	3,528	2,145	25	12	107
Davis Colliery Co.	No 4			51		

Midland Coal & Coke Co.	Midland	41,358	25,058	101	60	195
Totals		44,886	27,203	227	43	180
<i>Monongalia County.</i>						
Opekiska Coal & Coke Co.	Opekiska			20		
Fairmont Coal Co.	Beechwood	70,167		46		
Elkins Coal & Coke Co.	Richard	92,709	42,280	150	150	207
Connellsville Basin Coke Co.	Nos. 1, 2 and 3		74,994	200	125	275
Totals		162,876	117,254	416	136	298
<i>Preston County.</i>						
The Austen Coal & Coke Co.	No. 1	93,489		250	165	208
Hamilton Coal & Coke Co.	Newburg Shaft		57,704	90		
Gorman Coal & Coke Co.	No. 2			40		
Orr Coal & Coke Co.	Vulcan	11,509	6,851	100	50	80
Manufacturers Coal & Coke Co.	Victoria No. 2			64		
Elkins Coal & Coke Co.	Bretz	41,328	27,198	267	175	116
Elkins Coal & Coke Co.	Masontown	52,793	31,155	80	80	213
Preston County Coke Co.	Cascade	78,684	52,917	102	83	306
Totals		277,803	175,915	983	109	183
<i>Taylor County.</i>						
Winona Coal & Coke Co.	No. 1	8,839	5,302	30	12	225
Totals		8,839	5,302	30	12	225
<i>Randolph County.</i>						
Davis Coal & Coke Co.	Weaver No. 1	34,850	22,914	235	114	365
Davis Coal & Coke Co.	Weaver No. 2	23,064	15,173			
Davis Colliery Co.	Coalton No. 1	78,305	57,793		100	
Davis Colliery Co.	Harding No. 3	46,474	32,521	85	60	214
Totals		182,693	128,401	320	94	313
<i>Tucker County.</i>						
Cumberland Coal Co.	Nos. 4 & 5	10,117	6,022	145	20	156
Davis Coal & Coke Co.	Thomas No. 23 and					
Davis Coal & Coke Co.	Pendleton Run	32,502	19,236	114	106	365
Davis Coal & Coke Co.	Thomas No. 34	18,857	11,150			
Davis Coal & Coke Co.	Coketon No. 35	28,689	17,927			
Davis Coal & Coke Co.	Coketon No. 36	21,833	10,995			
Davis Coal & Coke Co.	Coketon No. 37	84,828	51,581	458	116	365
Totals		198,826	116,920	717	95	200
<i>Fayette County.</i>						
Sunday Creek Co.	No. 111	69,402	41,007	102	102	240

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30TH, 1902.

NAME OF COMPANY.	NAME OF MINE.	Tons of Coal Used in Ovens (Tons of 2,000 lbs.)	Tons of Coke Produced (Tons of 2,000 lbs.)	Number of Ovens Reported.	Average No. Ovens Used Per Plant.	Average No. Days Ovens were Operated.
<i>Fayette County.—Con't.</i>						
Sunday Creek Co.	No. 112	114,940	56,680	200	200	240
Sunday Creek Co.	No. 115	86,689	55,442	166	100	269
The Columbus Iron & Steel Co.	No. 1	55,970	31,682	84	80	201
The Mount Carbon Co., Ltd.	Vulcan	45,782	27,989	202	94	300
Great Kanawha Colliery Co.	Edwards & Digby	4,991	2,427	69	30	90
Lump Creek Colliery Co.	Amsted & Eagle	128,297	77,531	565	293	265
The Ganley Mountain Coal Co.	Nova Scotia	46,543	28,004	152	110	300
Gaymont Colliery Co.	Gaymont	.....	.....	36	.....	.....
Sunbury Coal & Coke Co.	Sunny Side	.....	.....	18	.....	.....
The Fayette Coal & Coke Co.	Fayette	.....	.....	12	.....	.....
Fire Creek Coal & Coke Co.	Fire Creek	.....	11,582	98	50	300
New River & Pocahontas Consolidated Coal Co.	Minden No. 5	14,560	.....	100	.....	.....
Greenwood Coal Co.	Greenwood	.....	.....	45	.....	.....
The Low Moor Iron Co. of Virginia	Kaymoor No. 1	80,640	48,000	147	125	285
Elverton Coal & Coke Co.	Elverton	.....	.....	51	.....	.....
The New River Collieries Co.	Brooklyn	29,583	17,610	64	63	250
The New River Collieries Co.	Rush Run	67,308	38,300	92	40	280
The New River Collieries Co.	Run Nos. 1, 2 & 3	38,752	20,800	120	75	175
Harvey Coal & Coke Co.	Nos. 1 & 2	37,819	22,175	98	70	.....
Collins Colliery Co.	Nos. 1 and 2	24,080	15,285	100	50	315
Macdonald Colliery Co.	Macdonald	31,933	17,107	120	80	365
Turkey Knob Coal Co.	Turkey Knob	22,389	13,333	100	75	.....
Totals	.....	899,068	525,154	2,681	104	259
<i>Kanawha County.</i>						
Cannelton Coal Co.	No. 2	.....	.....	* 90	.....	.....
Total	.....	.....	.....	90	.....	.....
<i>Mercer County.</i>						
Mill Creek Coal & Coke Co.	Coaldale	14,561	9,587	140	50	219
Mill Creek Coal & Coke Co.	East, West and Tug River	51,345	32,092	215	115	223
Buckeye Coal & Coke Co.	North and South	32,722	18,688	172	40	145
Booth-Bowen Coal & Coke Co.	Booth-Bowen	35,736	19,941	177	70	140
Pocahontas Consolidated Collieries Co., Inc.	Casswell, Hemlock & Elk Horn	15,333	8,550	231	40	75
Louisville Coal & Coke Co.	Louisville & Goodwill	34,998	20,835	225	50	300

* Not in use.

		Crystal	26,485	140	110	220
Crystal Coal & Coke Co.		48,386				
American Coal Co., of Allegany county		94,566		200	200	
The Thomas Coal Co.		61,624	37,144	146	142	295
Totals.....		389,251	220,681	1,646	84	221
<i>McDowell County.</i>						
Algoma Coal & Coke Co.		40,410	22,780	225	89	300
Elk Ridge Coal & Coke Co.		40,151	22,405	200	90	225
Gilliam Coal & Coke Co.		41,051	22,908	217	80	105
Indian Ridge Coal & Coke Co.		35,730	21,661	200	100	249
Roanoke Coal & Coke Co.		38,878	25,759	130	63	365
Arlington Coal & Coke Co.		34,463	19,251	158	60	188
Greenbrier Coal & Coke Co.		39,722	23,645	200	68	275
McDowell Coal & Coke Co.		32,889	21,926	200	70	265
Ashland Coal & Coke Co.		17,305	10,301	410	50	195
Pocahontas Consolidated Collieries Co., Inc.				128		
Pocahontas Consolidated Collieries Co., Inc.		15,613	8,710	158	100	120
Pocahontas Consolidated Collieries Co., Inc.		13,700	7,650	120	60	75
Pocahontas Consolidated Collieries Co., Inc.		63,154	35,230	389	100	175
Pocahontas Consolidated Collieries Co., Inc.		179,906	112,440	514	375	240
Elkhorn Coal & Coke Co.		44,145	29,174	170	80	365
New River & Pocahontas Consolidated Coal Co.		81,450	48,488	200	100	
United States Coal & Coke Co.		6,831	3,504	250	25	26
United States Coal & Coke Co.		295,664	176,126	710	500	304
United States Coal & Coke Co.		171,320	106,145	300	265	304
United States Coal & Coke Co.		140,684	85,523	200	207	304
United States Coal & Coke Co.		65,537	42,614	102	100	304
United States Coal & Coke Co.		186,372	117,971	308	250	304
United States Coal & Coke Co.		232,250	144,500	350	340	304
United States Coal & Coke Co.		32,270	67,567	172	159	304
Page Coal & Coke Co.		88,655	51,920	500	130	310
Middle States Coal & Coke Co.		32,719	22,105	310	62	
The Tidewater Coal & Coke Co.		29,627	19,751	300	50	365
Bottom Creek Coal & Coke Co.		37,593	24,983	220	73	300
Peerless Coal & Coke Co.		56,083	27,872	254	201	
The Empire Coal & Coke Co.		49,060	31,580	250	120	365
Shawnee Coal & Coke Co.		32,955	17,617	188	75	105
Eureka Coal & Coke Co.		38,629	21,185	200	100	365
Pulaski Iron Co.		157,408	87,828	290	220	315
Key-stone Coal Co.		31,868	20,221	219	65	250
Lynchburg Coal & Coke Co.		46,892	25,755	213	100	313
Powhatan Coal & Coke Co.		45,653	28,533	225	88	216
Upland Coal & Coke Co.		51,629	30,733	252	100	313
Houston Coal & Coke Co.		70,496	37,998	230	170	210
Crozer Coal & Coke Co.		61,860	41,153	354	100	200
Turkey Gap Coal & Coke Co.		133,588	68,157	240	200	230
Totals.....		2,879,156	1,733,479	10,155	141	270

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Mines Pro- ducing Coal.	Average No. of Days Mines were Operated.	Number of Coke Plants Operated.	Average No. of Days Ovens were Operated.	Employees.					Outside.		Sum Total.	
					Inside.			Total.		Labors.	Coke Workers.		Total.
					Pick Miners.	Machine Miners.	Machine Runners and Help- ers.	Labors.					
Brooke	9	207			123	475	73	94	765	80		80	845
Hancock	2	253			16	50	8		97	10		10	107
Marion	26	214	5	191	1,065	1,001	246	947	3,200	590	72	662	3,922
Marshall	6	138			24	223	32	60	339	54		54	383
Ohio	7	190			58	151	14	41	204	29		29	293
Harrison	56	160			1,000	1,143	305	834	3,282	634		634	3,916
Lewis	1	80			35	35	8	7	50	5		5	55
Upshur	4	257			50	35	8	10	103	12		12	115
Barbour	16	201	2	180	278	231	57	179	745	108	24	132	877
Monongalia	8	217	2	238	239	45	13	71	368	84	90	174	542
Preston	17	173	5	183	672	250	41	231	1,194	113	116	229	1,423
Taylor	13	194	1	225	317	91	20	91	519	101	3	104	623
Grant	3	218			37	90	32	54	213	36		36	249
Mineral	22	199			646	33	6	87	772	107		107	879
Randolph	7	155	4	313	331	81	442	81	1,100	146	96	156	598
Trucker	13	224	2	348	719	76	10	295	1,100	146	110	256	1,356
Braxton	2	170			78			13	91	9		9	100
Gilmer	1				25			3	28	2		2	30
Mason	7	163			150	45	8	34	237	34		34	271
Putnam	10	258			604	20	4	171	799	206		206	1,005
Clay	2	180			46	28	9	8	91	11		11	102
Fayette	133	199	17	257	5,724	2,007	449	2,639	10,900	1,433	519	1,952	12,861
Kanawha	109	158			1,088	2,836	649	1,394	5,967	955		955	6,922
Boone	4	90			16			4	20	3		3	23
Nichols	5	154			46	20	6	22	94	18		18	112
Greenbrier	1				38			7	45	6		6	51
Raleigh	35	186			1,394	314	62	659	2,429	390		390	2,819
Mercer	29	202	9	320	1,442	48	22	722	2,234	390		390	2,933
McDowell	109	211	39	247	5,989	1,058	212	3,402	10,661	1,680	2,268	3,428	14,589
Lincoln	3	273			20	45	5	14	84	15		15	99
Logan	23	253			31	916	178	461	1,586	379		379	1,965
Mingo	32	181			245	785	273	419	1,792	331		331	2,033
Wayne	1				41			16	57	4		4	61
Totals	713	192	87	243	22,583	12,141	2,750	13,083	50,567	8,015	3,607	11,622	62,189
Totals for 1908	721	211	103	216	21,728	11,627	2,750	12,833	48,938	7,555	3,904	11,459	60,397

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.										No. of Horses and Mules Inside.
		Inside.					Outside.					
		Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Total.	Laborers.	Laborers.	Coke Workers.	Total.	Sum Total.		
<i>Brooke County.</i> A. Gilchrist & Sons Coal Co. La Belle Coal Co. Beech Bottom Coal Co. Lewis-Findley Coal Co. La Belle Iron Works. Rex Carbon Coal Co.	Gilchrist	65			5	70	5		75	150	6	
	Lewis No. 1		70	10	10	90	10		100		4	
	Beech Bottom Coal Co.	25	75	7	15	122	10		132	211	2	
	Lewis-Findley Coal Co.	32	145	22	35	234	34		268	246	12	
	La Belle Iron Works.		100	22	19	141	11		152	261		
	Rex Carbon Coal Co	1	85	12	10	108	10		118	80	5	
Totals		123	475	73	94	765	80		845	207	29	
<i>Hancock County.</i> The Marquet Coal Co. The Marquet Coal Co.	No. 4	6	50	8	18	82	9		91	252	9	
	No. 5	10			5	15	1		16	258	3	
	Totals	16	50	8	23	97	10		107	253	12	
<i>Marion County.</i> Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co. Fairmont Coal Co.	Murray	30	15	6	15	66	14		80	124	9	
	Montana	44	48	10	49	151	47	7	54	153	13	
	Shaft	50	65	12	59	186	40		226	162	24	
	New England	45	80	20	50	195	75		270	135	19	
	Gaston	28	47	10	58	143	30		173	140	24	
	Monongah No. 2	46	18	6	28	98	40		138	232	10	
	Monongah No. 3	6	20	2	14	42	1		43	118	8	
	Monongah No. 6	63	40	16	59	178	22	30	52	230	249	
	Monongah No. 8	11	90	16	56	173	30	10	40	213	200	
	Shaver	5	69	8	22	104	15		119	212	17	
	Pennois	90			56	146	15		161	273	26	
	Anderson	50			46	96	24		120	158	9	
	Highland	30	30	8	54	182	37		209	157	18	
	Middletown	26	45	10	35	116	16		132	193	17	
	Chiefton	38	43	12	34	127	25		152	152	21	
	Hutchinson	4	44	6	33	87	17		104	134	12	
	Fairmont Coal Co	80	150	40	60	330	30	15	35	259	32	
	Georges Creek Coal & Iron Co	20	65	30	32	147	22		168	245	14	
	New Central Coal Co											

Federal Coal & Coke Co	45	97	28	125	295	40	302	335	302	17
The Va. & Pittsburgh Coal & Coke Co.	210	35	6	35	245	34	310	280	310	22
Parker Run Coal & Coke Co.		35		5	46	4	200	52	200	6
Harry B. Coal Co.	35			12	47	4		51		4
Kilbuck No. 1	15			5	25	7		32	300	2
Pittsburgh Steam Coal Co.	20			4	19	3		22	177	2
Catawba Coal Co.	8			1	9	2		11	60	2
Dakota Coal & Coke Co.	7				7	4		11	50	1
Totals	1,063	1,001	246	947	3,260	590	214	3,922	47	359
<i>Marshall County.</i>										
Hitchman Coal & Coke Co.		150	16	20	186	20	144	206		11
Boggs Run	10			6	16	3		19		3
Wheeling Steel & Iron Co.	14	28	4	15	61	12		73		3
Glendale		14	4	6	24	6		30	40	2
Shaft Mine		19	6	7	32	6		38		4
Bituminous No. 1		12	2	6	20	7		27	60	
Totals	24	923	32	60	339	54	138	383		23
<i>Ohio County.</i>										
Richland Coal Co.		110	10	17	137	13		150		7
Elm Grove	5	41	4	6	56	5		61	105	3
Whitaker-Glessner Co.	30			8	38	7		45		3
Reymann Brewing Co.	8			2	10	1		11	300	3
J. S. Creighton				4	4	1		5	167	
Peter Storch & Sons	5				5	2		7		
La Belle Iron Works	10			4	14			14	300	4
Totals	58	151	14	41	264	29	190	293		24
<i>Harrison County.</i>										
Clarksburg Fuel Co.	7	18	5	14	44	10		54	94	7
Clarksburg Fuel Co.	62	60	8	55	185	35		220	157	21
Clarksburg Fuel Co.	30	35	8	22	95	14		109	121	15
Clarksburg Fuel Co.	5			2	7	1		8	220	2
Clarksburg Fuel Co.	23	13	6	15	57	10		67	121	7
Clarksburg Fuel Co.	2	18	14	13	51	13		64	120	11
Clarksburg Fuel Co.	2	6	2	6	16	10		26	130	3
Enterprise	43	69	21	68	201	49		250	157	23
Fairmont Coal Co.	21	28	10	32	91	21		112	109	10
Fairmont Coal Co.	3	20	4	20	57	12		69	135	7
Fairmont Coal Co.	12	55	10	35	112	19		131	126	1
Fairmont Coal Co.	10	42	24	31	93	18		131	112	7
Fairmont Coal Co.	10	40	4	30	104	31		135	112	13
Fairmont Coal Co.	15	30	4	25	74	15		89	101	8
Fairmont Coal Co.	3	11	4	6	24	10		34	89	4
Fairmont Coal Co.	8	22	6	16	52	12		64	108	3
Fairmont Coal Co.	29	20	8	20	77	20		97	111	12

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.						Sum Total.	Aver. No. of Days Mines were Operated.	Aver. No. of Days Ovens were Operated.	Average No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.
		Inside.			Outside.							
		Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Total.	Laborers.						Coke Workers.	Total.
<i>Harrison County.—Con'tl.</i>												
Fairmont Coal Co.	Columbia	24	26	8	25	83	23		106	165		10
Fairmont Coal Co.	Robinson Run		18	4	7	29	7		36	108		3
Fairmont Coal Co.	Reynoldsville	15			7	22	6		28	81		4
Fairmont Coal Co.	Lynch	10			4	14	2		16	109		3
Fairmont Coal Co.	West Fork	13			5	18	3		21	125		2
Pittsburg & Fairmont Fuel Co.	Perry 1 and 2	23	34	8	12	77	14		91	117		10
Pittsburg & Fairmont Fuel Co.	Coaling Station.	4	18	4	7	33	6		39	101		6
Pittsburg & Fairmont Fuel Co.	Pooz.	10	13	8	12	43	13		56	143		6
Pittsburg & Fairmont Fuel Co.	Lucas	6	14	6	9	35	5		40	134		5
Virginia-Maryland Coal Corporation	Willard No. 1	10	25	12	20	67	11		78	300		14
Cook Coal & Coke Co.	Girard No. 1	6	23	4	12	45	15		60			6
Cook Coal & Coke Co.	Girard No. 1A		12	2	6	20	15		15	35		3
Corona Coal & Coke Co.	Harold	14	43	5	18	80	7		87	205		7
Central Fairmont Coal Co.	Snake Hill	41			2	43	6		49			5
Vincent Coal Co.	Grasselli	40			6	46	5		51	240		6
Haywood Coal Mining Co.	Monroe	40			5	45	3		48	300		11
Meadowbrook Coal & Coke Co.	Erie	15	50	14	18	97	15		112	208		1
Harrison County Coal Co.	Overholt		7	2	2	11	1		12	161		5
W. B. Guntion Coal Co.	Overholt and Phoenix	5	10	4	5	24	7		31	30		2
Lambert Run Coal Co.	Clauson	10			2	12	2		2	14		2
Hero Coal & Coke Co.	Hero	20			1	21	3		24	209		4
Blue Ridge Coal Co.	Thompson	40			6	46	4		4	50		4
Rose Bud Coal Co.	Rosebud	5	18	2	7	32	4		36	27		4
Monroe Colliery Co.	Sylvester		20	4	7	31	8		39	253		3
National Coal Co.	National	15			5	20	2		22	290		5
Fayette Coal Co.	Fayette	22			5	27	3		30	216		8
Short Line Coal Co.	Dola	52			24	76	13		89	275		6
Fairmont & Balto. Coal & Coke Co.	Fairmore	95			20	85	15		100	180		6
Madeira-Hill-Clark Coal Co.	Goff	25	10	2	11	48	5		53	200		18
Madeira-Hill-Clark Coal Co.	Waldo	34	52	12	22	120	16		136	180		7
Madeira-Hill-Clark Coal Co.	New Chief 'n & Randolph	10	70	16	26	122	34		156	194		2
Southwestern Coal Co.	Miller Nos. 1 and 2	25			4	29	5		34	95		7
Washington Fuel Co.	Miller Nos. 1 and 2	15			3	18	3		21	28		1

O'Gara Coal Mining Co.	50	10	10	70	8	8	78	200			9
Pitcairn Coal Co.	19	41	6	88	18	18	106	121			10
Marshall Coal Co.	40	40	10	135	125	10	135	137			15
Cook & Hart Coal Co.	30			30	2	2	32				3
Hutchinson Fuel & Supply Co.	8	18	32	110	15	15	125	242			9
Totals	1,000	305	834	3,282	634		634	3,916	100		399
<i>Lewis County.</i>											
Jacksonville Coal & Coke Co.		35	8	50	5	5	55	80			5
Totals		35	8	50	5	5	55	80			5
<i>Upshear County.</i>											
Red Rock Fuel Co.	15	8	4	62	8		70	310			
Newcomer Coal Co.	20		4	24	2		26				2
Buckhannon River Coal Co.	15		2	17	2		19	61			2
Totals	50	8	10	103	12		115	257			4
<i>Barbour County.</i>											
Meriden Coal Mining Co.	1	4	10	55	10		65	145			4
Tygart's River Coal Co.	2	4	8	39	7		46	182			8
Fairmont Coal Co.	35	19	62	160	41		201	495			29
Laurel Creek Coal Co.	20		2	22	2		24	175			5
The Century Coal Co., of W. Va.	59	18	45	199	18		217	293			17
The Century Coal Co., of W. Va.	51		15	69	7		76	294			10
Grafton Fuel Co.		8	5	33	2		35	250			5
Grafton Fuel Co.	30		3	33	2		35	250			5
David's Coal & Coke Co.	40		11	51	6		57	168			6
Miller Coal & Coke Co.	15		3	18	3		25	153			3
Days Colliery Co.	2		3	2	1		3	60			2
Junior No. 4			12	41	6		26	213			6
Midland Coal & Coke Co.	25	4	1	11	2		13	115			1
Luella Coal & Coke Co.	10		2	12	1		13	125			1
Luella Coal & Coke Co.	10		2	12	1		13	125			1
Phillippi											
Totals	278	57	179	745	108	24	877	201	180	43	100
<i>Monongalia County.</i>											
Opekiska Coal & Coke Co.	24		7	31	3	4	38				7
Fairmont Coal Co.	29	6	14	61	10		71	104			14
Elkins Coal & Coke Co.	90	4	25	123	15		178	207			
Richard No. 1	3	3	7	23	3		26	150			
Sabaton No. 5	68	19	16	103	48		197	275			6
Nos. 1, 2 & 3	3		2	3	2		5	239			2
Cornellville Basin Coke Co.	3		2	24	3		27	90			2
The Great Scott C. & C. Co.	22										
Grant Coal Co.											
Totals	239	45	71	308	84	90	542	217	238	136	31

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.							Ave. No. of Days Mines were Op-erated.	Ave. No. of Days Ovens were Op-erated.	Ave. No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.		
		Inside.			Outside.									
		Pick Miners.	Machine Miners.	Machins Runners and Help-ers.	Laborers.	Total.	Coke Workers.	Total.						
<i>Preston County.</i>														
The Austen Coal & Coke Co.	Austen No. 1	96	12	6	21	135		36	171	208	208	165	14	
The Austen Coal & Coke Co.	Austen No. 2	40	12	6	12	70		2	72	88			1	
Hamilton Coal & Coke Co.	Newburg Shaft	3		2	10	15		8	23	200			2	
Gorman Coal & Coke Co.	West End No. 1	10			2	12			12	55			2	
Gorman Coal & Coke Co.	Gorman No. 2	50	14		7	71		6	77	125			10	
Irona Coal Co.	Irona No. 1	18			4	22		4	25	175			2	
Irona Coal Co.	Irona No. 2	50			13	62		5	67	175			2	
Merchants Coal Co.	No. 2	40	100	12	50	202		28	230	149			9	
Oakland Coal Co.	Corinth	20			5	25		2	27	165			12	
Kingwood Coal Co.	Howesville	25	46	5	24	100		10	110	151			15	
Hite Coal & Coke Co.	Dixie	10				10		3	13	90			3	
Orr Coal & Coke Co.	Vulcan	55	9		16	80		4	94	181	80	50	12	
Manufacturers Coal & Coke Co.	Victoria No. 2	50			5	55		4	59	40			5	
Elkins Coal & Coke Co.	Bretz No. 2	62	25	2	23	112		15	30	45	116	175		
Elkins Coal & Coke Co.	E. C. & C. Co. No. 4	40	32	8	23	103		11	114	245				
Elkins Coal & Coke Co.	E. C. & C. Co. No. 6	43			8	51		6	21	298	213	80		
Preston County Coke Co.	Cascade No. 1	60			10	70		5	100	305	306	83		
Totals		672	250	41	231	1,194	113	116	229	1,423	173	183	109	97
<i>Taylor County.</i>														
Grafton Coal & Coke Co.	Sandlick	60			12	72			10	220				8
Pittsvein Coal Co.	Flemington	20	23	2	15	60			21	94				17
T. B. Davis	T. B. Davis	40			10	50		8	58					6
McGraw Coal Co.	New York	30	10	6	15	61			20	81	190			1
Rosemont Coal Co.	Rosemont	127			22	149			16	165	250			11
Maryland Coal Co.	Wendel 1, 2, 3, 4 and 5	5	45	6	9	65			16	81	123			9
Maryland Coal Co.	Winona No. 1		5	2	3	10		3	8	18	270	12		4
Winona Coal & Coke Co.	Winona No. 2		3	2	1	6				6	300			1
Winona Coal & Coke Co.	Harrison	35	3		3	38			2	40	220			2
Harrison Coal Co.	East Grafton		2			3		1	1	4				1
East Grafton Coal Co.	Oecil		2	2	1	5		2	7	120				2
Johnson Bros. Coal Co.														
Totals		317	91	20	91	519	101	3	104	623	194	225	12	61

<i>Grant County.</i>			90	32	50	172	32	32	204	231			16
Davis Coal & Coke Co	Henry No. 22	25			4	20	2		31	25			4
Buffalo Creek	Buffalo Creek	12				12	2		2				2
Cottage Street Coal Co	Cottage street								14				
Totals.		37	90	32	54	213	36		249	218			22
<i>Mineral County.</i>													
Davis Coal & Coke Co	No. 6	37			2	39	2		41	280			8
Davis Coal & Coke Co	Hartmansville No. 9	123			11	134	13		13	241			13
Davis Coal & Coke Co	Tyson No. 10	38			5	43	5		7	226			6
Davis Coal & Coke Co	Kittanning No. 14	51			7	58	7		65	223			2
Davis Coal & Coke Co	Kittanning No. 15	13			1	14	1		1	221			9
Davis Coal & Coke Co	Ott No. 20	36			6	42	9		9	200			4
Davis Coal & Coke Co	Montgomery Run No. 19	65			10	75	23		98	191			4
Davis Coal & Coke Co	No. 50	34			5	39	4		4	176			4
Davis Coal & Coke Co	No. 51	38			6	44	6		6	197			
Abrams Creek C. & C. Co.	Oakmont	5			8	52	5		5	221			4
Wiedmont & Poiniac C. Co	Virginia	7	33	6	1	8	2		2	112			
Masteller Coal Co	Hampshire	46			5	51	6		6	136			5
Masteller Coal Co	New Creek								57	* 14			1
Smith Coal Co	Smith	40			5	45	6		6	170			
Western Maryland Coal Co	Blaine No. 2	6			4	10	3		3	110			1
Western Maryland Coal Co	Blaine No. 3	7				7			7	110			1
Western Maryland Coal Co	Blaine No. 4	9				9			9	110			3
Gleason Coal & Coke Co	Gleason No. 2	42			6	48	6		6	200			
Bir Vein Coal Co. of W. Va	Fourfoot	19			2	21	6		6	217			3
Denman Coal Co.	Denman No. 3	20			2	20	2		2	40			3
Glade Run Coal & Coke Co.	Sarah	5			2	7			7	105			1
Emory Run Coal Co.	Emory Run No. 1	5			1	6	1		1	130			1
Totals		643	33	6	87	772	107		879	199			70
<i>Kandolph County.</i>													
Davis Coal & Coke Co	Weaver No. 1	90			21	111	11		39	150			12
Davis Coal & Coke Co	Weaver No. 2	65			17	82	8		24	103			10
Davis Colliery Co	Coalton No. 1	110			20	130	20		52	182			12
Davis Colliery Co	Sirard No. 2	14			2	16	1		1	33			1
Davis Colliery Co	Harding No. 3	70			20	90	18		38	128			60
Davis Colliery Co	Harding No. 5	7			1	8	1		1	313			1
W. H. Greene (lessee)	Klondyke	5				5	1		1	155			3
Totals		361			81	442	60		156	598			39
<i>Tucker County.</i>													
Cumberland Coal Co	Douglas No. 1	55			22	77	2		2	210			5
Cumberland Coal Co	Douglas Nos. 4 and 5	25			43	154	48		56	210			15
Davis Coal & Coke Co	Thomas 2 & 3 & Pend. R	140	76	10	54	194	27		221	230			18

*Hampshire miners that worked in New Creek mine.

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.										Mines were Op-erated.	Avg. No. of Days Ovens were Op-erated.	Avg. No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.
		Inside.					Outside.								
		Pick Miners.	Machine Miners.	Machine Runners and Help-ers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.	Sum Total.					
<i>Tucker County.</i> —Con't.	Thomas No. 25	133			37	170	14		14	184	195			15	
	Davis Coal & Coke Co				10	65	8		8	73	191			10	
	Davis Coal & Coke Co	55			40	94	7	32	39	133	230	365	106	15	
	Davis Coal & Coke Co	54			12	50	3		3	53	268	?		10	
	Davis Coal & Coke Co	38			30	160	12		12	172	270			17	
	Davis Coal & Coke Co	130			38	93	14	70	84	180	289	265	116	16	
	Davis Coal & Coke Co	58			37	37	11		11	48	21			5	
	Beacon Coal & Coke Co	29			1	3				3				1	
	Gatzmer Coal & Coke Co	2													
	Totals	719	76	10	295	1,100	146	110	256	1,356	224	348	95	122	
<i>Braxton County.</i>	Davis Colliery Co.	69			11	80	8		8	88	170			7	
	Davis Colliery Co.	9			2	11	1		1	12				2	
	Totals	78			13	91	9		9	100	170			9	
<i>Gilmer County.</i>	Cosmopolitan C. & C. Co.	25			3	28	2		2	30				2	
	Totals	25			3	28	2		2	30				2	
	<i>Mason County.</i>	Klondike & Linden	65			8	73	6		6	79	235			8
Camden			20	4	3	27	6		6	33	200			8	
Consumers Coal & Mining Co		35			6	41	8		8	49				2	
Beech Grove Coal Co		25			7	32	2		2	34	200			1	
Liverpool Salt & Coal Co					5	34	10		10	44	250			3	
Hartford Coal & Mining Co		25	25	4	5	30	2		2	32	65			2	
Dixie Coal Works															
Totals		150	45	8	34	137	34		34	271	163			38	
<i>Putnam County.</i>	Plymouth Coal & Mining Co.	15			5	20	5		5	25	227			2	
	Totals	15			5	20	5		5	25	227			2	

Plymouth Coal & Mining Co.	62		21	83	11		11	94	227				10
Plymouth Coal & Mining Co.	77		19	93	10		10	106	297				8
Alpha Coal Mining Co.	8			10	2		2	12	100				1
The Otto Marmet Coal & Mining Co.	250		40	200	130		130	445	273				25
Black Betsey Coal & Mining Co.	188		80	248	20		20	288	150				20
Oak Forest Coal & Mining Co.		4	3	27	6		6	33	150				.....
Big Hurricane Coal Co.	4		1	5	2		2	7					.....
Totals.	604	20	171	709	206		206	1,005	258				65
Elk River Coal & Lumber Co.	21	28	8	61	6		6	57	245				5
Carter Coal Co.	25	5		30	5		5	35	100				3
Totals.	46	28	8	91	11		11	302	180				8
<i>Fayette County.</i>													
Sunday Creek Co.		102	65	177	21	40	61	238	198		102		25
Sunday Creek Co.		115	64	191	25	73	98	289	228		240		20
Sunday Creek Co.		70	12	134	36		36	170	142		200		16
Sunday Creek Co.	25	92	43	170	25	39	64	234	193		100		20
The Columbus Iron & Steel Co.	5	48	24	89	14	22	36	125	194		201		23
Kanawha Gas Coal Co.	45		25	70	12		12	82	110		80		8
Kanawha Gas Coal Co.	10	5	2	19	3		3	22	100				.....
W. R. Johnson & Co.	15	30	18	60	10		10	79	120				8
Boomer Coal & Coke Co.	25	114	50	201	10		10	211	67				20
Boomer Coal & Coke Co.	98	84	68	232	13		13	275	253				21
Boomer Coal & Coke Co.	103	45	65	219	15		15	234	295				18
Boomer Coal & Coke Co.	31	116	14	58	8		8	227	155				22
Paint Creek Collieries Co.		35	4	53	8		8	61	110				8
Eureka Colliery Co.		10	2	14	2		2	16	95				2
Eureka Colliery Co.	50	10	9	73	12		12	85	122				6
W. R. Johnson	30	10	2	42	7		7	42	150				2
W. R. Johnson	40		10	50				57	150				15
Mecca Coal & Coke Co.	3	12	3	20				20	150				.....
Mecca Coal & Coke Co.	40	10	11	43	6		6	69	156				5
The Carver Bros. Co.	40		9	40	10		10	59	179				4
The Carver Bros. Co.	60		18	78	12		12	90	140				6
The Carver Bros. Co.	25		4	20	5		5	34	130				5
The Carver Bros. Co.				13	17		17	116	125				12
St. Clair Colliery Co.	30	60	15	99	17		17	116	125				9
St. Clair Colliery Co.			15	45	6		6	51	40				6
M. B. Coal Co.	16		5	23	5		5	28	135				6
M. B. Coal Co.	60		11	75	5		5	80	163				8
M. B. Coal Co.	34		6	44	6		6	50	172				8
The Mount Carbon Co., Ltd.	50		28	88	15		15	140	140		94		15
Great Kanawha Colliery Co.	8	14	3	29	5		5	48	125		30		4
Great Kanawha Colliery Co.	20		3	29	1		1	30					3
Great Kanawha Colliery Co.	20		10	30	14		14	44					6
Loup Creek Colliery Co.	224		76	300	45		45	386	248		293		30
Herbert Collieries	90		15	105	15		15	120	264				14

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.						Outside.			Ave. No. of Days Mines were Op-erated.	Ave. No. of Days Ovens were Op-erated.	Ave. No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.		
		Inside.			Total.	Laborers.	Coke Workers.	Total.								
		Pick Miners.	Machine Miners.	Machine Runners and Help-ers.												
<i>Fayette County—Cont.</i>																
Fort Defiance C. Co.	Fort Defiance	40			6			46			5	135			9	
Lynchburg Colliery Co.	Lynchburg	80			25			105			8	113			20	
Ganoca Coal Co.	No. 5 Splint, No. 2 Gas.	80			10			90			15	205			15	
Deitz Colliery Co.	Deitz No. 2 Gas.	25			4			29			6	35			3	
Deitz Colliery Co.	Deitz No. 5 Splint	40			7			47			3	49			5	
Mill Creek Colliery Co.	Mill Creek		20	14	5			39			5	44	230		5	
The Gauley Mountain Coal Co.	Nova Scotia & T'k'y C'k	75	75	20	100			270	40	50	90	360	180	300	110	50
Gaymont Colliery Co.	Gaymont	5			1			6			1	7				3
Sunbury C. & C. Co.	Sunny Side	14	20	6	6			46	3	3	3	49				3
Beary—New River Coal Co.	Elmo		10	4	4			18	5	5	5	23				3
Michigan Coal Co.	Michigan	40			13			67	7	7	7	97	165			11
Manufacturers & Consumers C. Co.	Newlyn	75	10		15			90	7	7	7	97	165			12
The Fayette C. & C. Co.	Fayette	25			10			45			5	50	230			8
Brown Coal Co.	Brown	100	20		15			139	16	16	16	155	217			15
Nuttallburg Collieries Co.	Nuttallburg & Keeney's Ok	60	25	6	15			105	10	10	10	116	179			9
Holiday Coal Co.	Keeney	40			6			46			5	51	160			6
Keeney's Creek Colliery Co.	Smokeless	85	10	4	15			114	11	11	11	125	240			11
Keeney's Creek Colliery Co.	Boone	25	25	6	10			68	7	7	7	73	200			6
Ballingier Coal Co.	Ballingier No. 1	68			16			84	8	8	8	92	173			10
Ballingier Coal Co.	Ballingier No. 2	7			2			9	1	1	1	10	189			2
Rothwell Coal Co.	Dubree	4	30	6	10			50	7	7	7	57	165			6
Blume Coal & Coke Co.	Blume	75	25	4	16			120	4	4	4	124	240			10
Lookout Coal & Coke Co.	Lookout	40	3	2	6			51	5	5	5	56	251			5
Moseley & Walker	Cliff Top No. 1	20			4			24	1	1	1	26	200			2
Moseley & Walker	Cliff Top No. 2	50	5		2			9			1	10	200			7
Moseley & Walker	Cliff Top No. 3	50	20	5	15			90			5	95	200			8
Fire Creek Coal & Coke Co.	Fire Creek & Buffalo 1&2	50			30			80			23	103	247	300	50	10
Beary Bros. Coal & Coke Co.	Echo	60			15			75			5	80	195			5
Big Bend Coal Co.	Big Bend	20			3			23			3	26	200			9
Stone Cliff C. & C. Co.	Stone Cliff	45			9			54	15	15	15	69	210			7
Beechwood C. & C. Co.	Beechwood No. 1	89			15			104			5	109	210			6
Beechwood C. & C. Co.	Beechwood No. 2	50			8			58	6	6	6	64	180			7
Alaska Coal & Coke Co.	Alaska	25			7			32	8	8	8	40	165			6
Ephraim Creek C. & C. Co.	Buffalo	130	18	6	30			184			50	234	109			3

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.							Sum Total.	Ave. No. of Days Mines were Op- erated.	Ave. No. of Days Ovens were Op- erated.	Average No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.
		Inside.				Outside.							
		Pick Miners.	Machine Miners.	Machine Runners and Help- ers.	Labors.	Total.	Labors.	Coke Workers.						Total.
<i>Fayette County.—Con't.</i>													
Price Hill Fuel Co.	Sherwood	40	10		17	67	6		6				8
Turkey Knob Coal Co.	Turkey Knob	80	6	2	20	108	18	15	33		75		20
Mt. Hope C. & C. Co.	Baby	1			1	2		1	1				1
Totals		5,724	2,037	449	2,679	10,909	1,433	519	1,952	199	104		1,307
<i>Kanawha County.</i>													
Falling Rock Cannel C. Co.	Jones No. 2	20			2	22	3		3	200			2
Queen Shoals Coal Co.	Queen Shoals	25			6	31	4		4	190			0
Queen Coal & Coke Co.	Turner		25	4	15	44	12		12	56			0
The Elk Coal Co.	Turner		20	6	15	41	6		6	47			1
Pen Mar Mining Co.	Pen Mar	8				8	1		1	9			2
The Clay Coal Co.	Bradley White Ash	42			10	52	8		8	150			3
Mill Creek Cannel Coal Co.	Mill Creek	40			10	50	18		18	68			5
Blue Creek Coal & Land Co.	Willis Hollow No. 1	40			8	48	5		5	30			5
Blue Creek Coal & Land Co.	Willis Hollow No. 2		25	4	7	36	3		3	39			2
Blue Creek Coal & Land Co.	Blakely No. 3	5	25	4	11	45	8		8	53			5
Roderick Coal Co.	Roderick		35	8	8	51	8		8	50			5
Acme Steam C. Co.	Acme	10			5	15	10		10	25			2
Williams Coal Co.	Williams		10	4	5	16	5		5	21			3
The Campbell's Creek Coal Co.	No. 1		130	38	45	213	37		37	250			40
Quincy Coal Co., Inc.	No. 1		10	2	5	17	2		2	19			3
Quincy Coal Co., Inc.	No. 2		28	4	8	40	4		4	44			4
Sunday Creek Co.	No. 101	13	57	8	32	110	16		16	126			13
Sunday Creek Co.	No. 104		60	8	30	98	18		18	116			8
Sunday Creek Co.	No. 105		100	16	55	171	27		27	198			20
Sunday Creek Co.	No. 109		50	8	25	83	19		19	102			10
The New Cedar Grove Coal & B. Co.	Royd Nos. 1 & 2	5	8	8	7	24	2		2	26			2
Kellys Creek Colliery Co.	No. 1	15	55	8	15	93	10		10	103			10
Kellys Creek Colliery Co.	Nos. 3 & 4		110	16	32	158	13		13	171			18
Hughes Creek Coal Co.	Hughes Nos. 2 & 3	60	90	14	25	189	20		20	200			22
Cannelton Coal Co.	Cannelton No. 2	80	14	2	51	136	35		35	172			18
The Marmet Coal Co.	Monach		51	21	14	86	11		11	37			18
The Marmet Coal Co.	Butler	15	3	2	5	25	3		3	25			12

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.						Ave. No. of Days Mines were Op-erated.	Ave. No. of Days Ovens were Op-erated.	Average No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.	
		Inside.			Outside.							
		Pick Miners.	Machine Miners.	Machine Runners and Help-ers.	Laborers.	Total.	Laborers.					Coke Workers.	Total.
Kanawha County—Cont.	United Gas.....	45	10	6	33	94	12	.....	12	106	202	9
	United Splint.....		22	6	16	44	9	.....	9	53	220	16
	Cabin Creek Consolidated Coal Co		19	6	15	44	8	.....	8	52	119	8
	Cabin Creek Consolidated Coal Co	4		6	13	39	8	.....	8	47	221	47
	Cabin Creek Consolidated Coal Co		60	6	8	74	6	.....	6	80	128	6
	Paint Creek Collieries Co				10	78	6	.....	6	84	126	6
	Paint Creek Collieries Co	68			10	78	6	.....	6	84	126	6
	Paint Creek Collieries Co	8	40	8	20	76	12	.....	12	88	150	9
	Paint Creek Collieries Co	10	60	10	22	102	13	.....	13	115	150	10
	Paint Creek Collieries Co	8	30	6	9	53	10	.....	10	63	136	14
	Paint Creek Collieries Co		27	6	8	41	9	.....	9	50	138	9
	Paint Creek Collieries Co	10	10	2	3	25	2	.....	2	27	129	2
	Paint Creek Collieries Co	5	10	6	5	26	5	.....	5	31	114	3
	Paint Creek Collieries Co		20	4	7	31	6	.....	6	37	120	3
	Paint Creek Collieries Co		18	4	8	30	6	.....	6	36	120	3
	Paint Creek Collieries Co	40			12	52	11	.....	11	56	120	8
	Paint Creek Collieries Co		15	4	8	27	8	.....	8	37	120	4
	The Coalburg-Kanawha C. Co	5	30	8	6	49	8	.....	8	57	230	1
	The Coalburg-Kanawha C. Co	2	10	2	3	17		.....		17	119	5
	Southwestern Splint Fuel Co		40	6	10	56	10	.....	10	66	290	1
	Equitable Coal Co	10	40	10	15	75	15	.....	15	90	60	4
	Standard Splint & Gas Coal Co	20	40	8	15	83	17	.....	17	100	144	9
	Imperial Colliery Co	25	30	6	15	76	7	.....	7	83	90	6
	Imperial Colliery Co		50	12	14	76	9	.....	9	85	150	7
	Chesapeake Mining Co	41	35	12	21	109	17	.....	17	126	217	10
	Chesapeake Mining Co	48	41	8	23	120	21	.....	21	141	254	10
	Montgomery Coal Co	45	3	4	20	72	18	.....	18	90	173	15
Morris Creek Colliery Co		12	4	12	28	7	.....	7	35	60	2	
Totals.....		1,088	2,836	649	1,394	5,967	955	.....	955	6,922	158	772
Boone County.	Ottawa.....	10			2	12	2	.....	2	14	90	1
	The Spruce River Coal Co.	6			2	8	1	.....	1	9	.....	1
	Totals.....	16			4	20	3	.....	3	23	99	2

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.					Outside.			Sum Total.	Ave. No. of Days Mines were Op-erated.	Ave. No. of Days Ovens were Op-erated.	Average No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.
		Inside.			Total.	Labors.	Coke Workers.	Total.						
		Pick Miners.	Machine Miners.	Machine Runners and Help-ers.										
Mercer County.	Coaldale	84			64	148	32	24	56	204	219	50	18	
Mill Creek Coal & Coke Co	East, West & Tug River	101			99	200	22	54	76	276	223	115	20	
Mill Creek Coal & Coke Co	North and South h.	94			30	124	13	17	30	154	140	45	16	
Buckeye Coal & Coke Co.	Booth-Bowen	69			36	105	27	15	42	147	140	70	21	
Pocahontas Cons. Collieries Co., Inc	Caswell, Heml'k&Elkh'n	225			75	300	50	50	100	400	150	75	30	
Louisville Coal & Coke Co	Louisville & Goodwill	125			60	175	40	20	60	255	222	300	34	
Cephus Coal Co.	Cephus	10			12	22	5	5	5	27	300		4	
Crystal Coal & Coke Co	Crystal	85			68	153	13	50	63	216	241	110	24	
American Coal Co. of Allegheny Co	Crane Creek Nos. 1 & 2	115			42	157	31	34	65	200		200	38	
American Coal Co. of Allegheny Co	Pinnacle, S. & N	117			45	162	30	30	192				36	
American Coal Co. of Allegheny Co	Piedmont Nos. 1 & 2		30	14	10	54	12	12	75	225	282	142	14	
The Thomas Coal Co.	Thomas	100			50	150	30	45	12	66	200		22	
Pawama Coal & Coke Co.	Nos. 1 and 2	40			16	56	9	9	65	92	230		15	
The Weyanoke Coal & Coke Co	Weyanoke	26	14	4	20	64	28		28	92	211		13	
The Weyanoke Coal & Coke Co	Elkh'n	14	4	2	23	43				43	211		5	
The Smokeless Coal & Coke Co	Smokeless	20			20	40	5		5	45	200		16	
Hiawatha Coal & Coke Co.	Hiawatha	65			20	85	15	15	15	100	200		21	
Spring Coal Mining Co.	Spring	100			31	131	16	16	16	147	204		25	
Wenonah Coal & Coke Co	Wenonah	50		2	10	62	10	10	10	72	250		15	
T. D. Lee	T. D. Lee	2			1	3	2	2	2	5	275		1	
Totals		1,442	48	22	722	2,234	300	309	689	2,933	202	131	388	
McDowell County.	Piney & Northfork	100			85	185	70	25	95	280	223	89	24	
Algoma Coal & Coke Co	Elk Ridge	75			40	115	20	30	50	165	160	225	18	
Elk Ridge Coal & Coke Co	Gilliam	90			40	130	15	30	45	175	165	105	18	
Gilliam Coal & Coke Co	Indian Ridge	80	8		36	124	17	30	47	171	225	249	16	
Indian Ridge Coal & Coke Co.	Roanoke	60			25	85	20	40	60	145	168	365	8	
Roanoke Coal & Coke Co	Arlington	85			30	115	15	25	40	155	188	60	12	
Arlington Coal & Coke Co.	Greenbrier	70			40	110	15	25	40	150	226	275	14	
Greenbrier Coal & Coke Co.	McDowell	96	14	6	59	175	39	30	69	244	216	265	21	
McDowell Coal & Coke Co	Ashland & Monitor	130			87	217	29	22	51	268	157	195	29	
Ashland Coal & Coke Co	Cherokee	150			40	190	40	40	40	230	173		15	
Pocahontas Cons. Collieries Co., Inc.														

		290	90	290	50	90	140	430	120	120	120	100	18
Pocahontas Cons. Collieries Co., Inc.	Lick Branch	200	90	290	50	90	140	430	120	120	120	100	18
Pocahontas Cons. Collieries Co., Inc.	Delta	225	90	315	50	65	115	430	175	175	175	60	20
Pocahontas Cons. Collieries Co., Inc.	Shamokin	225	85	310	50	110	160	470	175	175	175	160	25
Pocahontas Cons. Collieries Co., Inc.	Norfolk & Angle	325	130	475	80	200	280	755	150	240	375	45	45
Pocahontas Cons. Collieries Co., Inc.	West	60	8	28	20	8	28	28	28	175	8	8	8
Zenith Coal & Coke Co.	Zenith Nos. 1 and 2	60	20	80	20	20	20	100	250	250	250	80	12
Elkhorn Coal & Coke Co.	Elkhorn	95	88	183	16	36	52	235	242	365	242	365	20
Mohawk Coal & Coke Co.	Mohawk		12	52	15	15	15	67					12
New River & Pocahontas Cons. C. Co.	Berwind No. 1		80	140	20	100	120	260					20
New River & Pocahontas Cons. C. Co.	Berwind No. 2		70	118	20	100	120	138					20
New River & Pocahontas Cons. C. Co.	Berwind No. 3		60	101	10	10	10	111					12
Dry Fork Mining & Investment Co.	War Creek	16	4	20				20	95			100	
Hall Mining Co.	Hall No. 1	35	11	46	9		9	55	217				2
Pocahontas Domestic C. Co.	Domestic	12	1	13	1	1	1	14	16				14
War Creek Coal Co.	No. 1	10	2	12	2	2	2	12					1
Dry Fork Colliery Co.	Dry Fork	20	6	26	6	6	6	32	90				4
Reynolds Mining Co.	Reynolds	14	2	16	1	1	1	17	40				4
Virginia-Pocahontas Coal Co.	Nos. 1 and 11	41	14	55	4	4	4	59	239				10
Virginia-Pocahontas Coal Co.	No. 2, East and West	28	8	36	5	5	5	41	205				3
Virginia-Pocahontas Coal Co.	Nos. 3 and 4	46	11	57	7	7	7	64	205				2
Virginia-Pocahontas Coal Co.	No. 5	28	15	50	10	10	10	60	305				2
Vaughan C. & C. Co.	Vaughan	15	10	25	4	4	4	29	114				5
Flanagan Coal Co.	No. 1				15	15	15	15					
Premier-Pocahontas Colls. Co.	Nos. 1, 2 & 3	60	15	75	15	15	15	90	109				5
Big Sandy C. & C. Co.	Big Sandy	75	25	111	16	16	16	127	206				13
Big Sandy C. & C. Co.	Marytown	108	30	138	25	25	25	163	210				15
Twin Branch Mining Co.	Twin Branch	30	10	70	10	10	10	80	245				11
Maher Coal & Coke Co.	Maher Nos. 1 & 2	15	15	35	5	5	5	40	233				7
J. B. B. Collieries Co.	J. B. B. No. 1	20	15	35	5	5	5	40	225				7
J. B. B. Collieries Co.	J. B. B. No. 2	30	30	70	10	10	10	80	234				8
J. B. B. Collieries Co.	J. B. B. No. 3	10	2	20	4	4	4	28	168				7
J. B. B. Collieries Co.	J. B. B. No. 4	10	2	20	4	4	4	122	122				7
J. B. B. Collieries Co.	J. B. B. No. 5	2	9	22	4	4	4	26	122				2
Superior-Pocahontas Coal Co.	No. 1	100	14	114	6	6	6	120	207				11
Superior-Pocahontas Coal Co.	No. 2	60	7	67	4	4	4	71	217				5
Superior-Pocahontas Coal Co.	Helena & Davy Crockett	30	4	34	3	3	3	37	120				5
Superior-Pocahontas Coal Co.	No. 4	10	2	14	1	1	1	15	70				1
Superior-Pocahontas Coal Co.	No. 5	6	1	7	1	1	1	8	220				1
The Pando Coal Co.	Pando	16	30	74	24	24	24	98	242				6
Atlas Pocahontas Coal Co.	Antler No. 3	15	10	12	52	6	6	58	210				5
Oregon Coal Co.	Imo & McClaren	25	25	113	20	20	20	133	200				24
Slick Rock C. Co.	Slick Rock	25	50	13				10	40				4
Jed Coal & Coke Co.	Jed	52	12	140	30	30	30	207	241				15
United States Coal & Coke Co.	No. 1	233	94	243	36	36	36	279	251			25	20
United States Coal & Coke Co.	No. 2	35	161	394	14	14	14	625	304			500	34
United States Coal & Coke Co.	No. 3	71	68	180	18	18	18	257	304			304	23
United States Coal & Coke Co.	No. 4	30	58	148	14	14	14	240	304			304	12
United States Coal & Coke Co.	No. 5	165	2	72	12	12	12	36	304			304	100
United States Coal & Coke Co.	No. 6	139	73	238	25	25	25	89	114			352	24
United States Coal & Coke Co.	No. 7		30	169	91	91	91	285	304			304	17

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.							Avg. No. of Days Mines were Operated.	Avg. No. of Days Ovens were Operated.	Average No. Ovens in Operation per Plant.	No. of Horses and Mules Inside.	
		Inside.			Outside.								
		Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Total.	Laborers.	Coke Workers.					Total.
<i>McDowell County—Cont.</i>													
United States Coal & Coke Co.	No. 8	64			36	100	9	54	63	103	304	159	8
United States Coal & Coke Co.	No. 9	70	8	2	34	114	26		26	140	301		22
United States Coal & Coke Co.	No. 10		65	10	23	98	9		9	107	295		13
United States Coal & Coke Co.	No. 11		99	17	35	151	16		16	167	292		14
United States Coal & Coke Co.	No. 12	10	70	10	15	105	35		35	140	152		14
Central Pocahontas C. Co.	Anawalt	6			2	8			3	11			
Black Wolf Coal & Coke Co.	No. 4	5	30	8	20	63	15		15	78	231		
Pace Coal & Coke Co.	Nos. 1, 2 & 3	140			50	190	50	46	96	286	100	310	20
Welch Coal & Coke Co.	Welch	30	6	4	20	60	10		10	70	260		5
Hemphill Colliery Co.	Hemphill	24	5	4	20	53	3		3	56	280		7
Middle States Coal & Coke Co.	No. 11		65	12	50	127	22	38	60	187	232	350	62
Dixon-Pocahontas Fuel Co.	North	4	25	6	20	55	15		15	70	200		3
Dixon-Pocahontas Fuel Co.	South		15	4	40	59	7		7	66	200		8
Cirrus Coal & Coke Co.	Cirrus No. 1	45			12	57	10		10	67	245		3
Virginia Fuel Co.	Virginia	15			5	20	6		6	26	196		3
The King Coal Co.	King	100			40	140	20		20	160	225		20
The Tidewater Coal & Coke Co.	Tidewater	100			40	140	20		20	160	292	305	18
Bottom Creek Coal & Coke Co.	Bottom Creek	85	8	2	94	189	31	27	58	247	177	300	27
Peerless Coal & Coke Co.	Peerless	92			54	146	20	45	65	211	174	201	17
The Empire Coal & Coke Co.	Empire	125			112	237	40	50	90	327	203	365	29
Shawnee Coal & Coke Co.	Shawnee	80			40	120	15	25	40	160	105	105	18
Eureka Coal & Coke Co.	Eureka	100			40	140	15	45	60	200	185	365	15
Pulaski Iron Co.	Pulaski Nos. 1 & 2	160			80	240	40	120	160	400	225	315	25
Keystone Coal & Coke Co.	Keystone Nos. 1 and 2	120			55	175	25	25	50	225	125	250	24
Lynchburg Coal & Coke Co.	Lynchburg	120			50	170	20	50	70	240	185	313	22
Powhatan Coal & Coke Co.	Powhatan	106	10	4	50	170	20	50	70	240	185	313	22
Upland Coal & Coke Co.	No. 1	115			60	175	20	50	70	240	185	313	17
Houston Coal & Coke Co.	Nos. 1 & 2	174			25	199	20	50	70	269	160	210	40
Crozer Coal & Coke Co.	Nos. 1 & 2	176			86	262	58	82	140	402	168	200	100
Turkey Gap Coal & Coke Co.	Turkey Gap	175			90	265	20	100	120	385	300	250	30
Flat Top Coal & Mining Co.	Flat Top	20	4		2	24	6		6	30	93		2
Hurricane Branch C. Co.	Hurricane	10	2		2	12	12		12	250	250		1
Henrietta Coal & Coke Co.	Henrietta	15			3	18	2		2	20	300		2
Totals		5,989	1,058	212	3,402	10,661	1,660	2,268	13,928	14,588	211	267	1,127

<i>Lincoln County.</i>		45	5	14	64	12	12	12	76	310	9
Branchland Coal Co.	Branchland	15							17	105	1
Kenova Coal Mining Co.	Kenova	5							6		
Kenova Coal Mining Co.	Coaling Station.										
Totals		20	45	14	84	15	15	15	99	273	10
<i>Logan County.</i>											
Stone Branch Coal Co.	Nos. 1, 2, 3, 4, 5, 6, 7 & 8.	6									5
Big Creek Coal Co.	Big Creek	30	8	10	54	10	10	10	64	175	4
E. R. Johnson Coal Mining Co.	Johnson	25	4	8	37	6	6	6	43	150	1
Draper Coal & Coke Co.	Draper	12	17	25	41	7	7	8	48	130	12
H. T. Wilson Coal Co.	Wilson	22	14	20	66	10	10	10	74	230	12
Fort Branch Coal Co.	Fort Branch	30	6	15	65	6	6	6	75	240	7
Price Coal Co.	Price	12	6	6	24	6	6	6	30	155	6
Rex Coal & Coke Co.	Rex	20	12	8	40	10	10	10	50	200	4
The Logan Coal Co.	Logan	15	10	10	35	10	10	10	45	191	8
The Ethel Coal Co.	Ethel	25	12	25	62	10	10	10	72	261	12
The Monitor Coal & Coke Co.	Monitor	30	12	11	53	10	10	10	63	195	9
The Monitor Coal & Coke Co.	Beechwood	63	8	34	105	35	35	35	140	282	4
The Yuma Coal & Coke Co.	Yuma	25	5	15	45	5	5	5	57	232	12
The Gay Coal & Coke Co.	Gay	24	6	20	50	14	14	14	64	270	18
Cora Coal & Coke Co.	Cora	33	4	6	43	7	7	7	50	217	21
United States Coal & Oil Co.	Island Creek No. 1	171	14	68	261	100	100	100	361	194	8
United States Coal & Oil Co.	Island Creek No. 2	177	16	71	268	99	99	99	367	240	12
United States Coal & Oil Co.	Island Creek No. 3	53	8	30	91	14	14	14	105	240	10
United States Coal & Oil Co.	Island Creek No. 4	52	6	23	81	8	8	8	89	211	10
United States Coal & Oil Co.	Island Creek Nos. 5 & 6	63	8	37	108	10	10	10	118	225	135
Totals		31	916	461	1,586	379	379	379	1,965	253	
<i>Mingo County.</i>											
Pearl Coal Mining Co.	Haggerty	20	3	4	27	5	5	5	32	65	8
Naugatuck Coal Co.	Blocton	30	12	25	67	7	7	7	74	107	4
Warfield Coal Co.	Warfield	16	8	7	31	7	7	7	38	18	4
Lemoin Coal Co.	Lemoin	12	8	10	30	8	8	8	38	60	12
Chattahoo Collieries Co.	Chattahoo	30	14	21	65	10	10	10	75	275	9
The Buffalo Collieries Co.	Buffalo	35	18	18	71	12	12	12	83	275	12
Linghocken Coal Co.	Nos. 5, 6, 7 & 8	5	16	15	66	12	12	12	78	228	9
Howard Colliery Co.	Howard	30	16	20	85	10	10	10	95	268	8
Winifrede Consolidated Coal Co.	Sugar Tree	49	8	12	40	6	6	6	46	30	6
Williamson Coal & Coke Co.	No. 3	20	12	10	47	20	20	20	67	210	5
Rawl Coal & Coke Co.	Rawl No. 1	25	6	4	20	4	4	4	24	200	3
Rawl Coal & Coke Co.	Rawl No. 2	10	6	5	10	6	6	6	31	51	3
White Star Mining Co.	Commercial	6	4	5	25	3	3	3	23	200	8
W. T. Poole Coal Co.	No. 1	10	10	5	20	3	3	3	67	200	12
Marvin Coal Co.	Marvin	30	10	20	60	7	7	7	72	198	3
Red Jacket Consolidated Coal Co.	Rutherford	30	8	12	60	12	12	12	13	190	10
Red Jacket Consolidated Coal Co.	Logan	3	2	2	11	2	2	2	13	190	3
Red Jacket Consolidated Coal Co.	Red Jacket	4	16	25	106	15	15	15	121	196	30

DETAIL OF THE MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Employees.										No. of Horses and Mules Inside.			
		Inside.					Outside.								
		Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Total.	Laborers.	Coke Workers.	Total.	Sum Total.	Ave. No. of Days Mines were Operated.		Ave. No. of Days Ovens were Operated.	Average No. Ovens in Operation per Plant.	
Mingo County.—Cont.															
Red Jacket Consolidated Coal Co.	Lick Fork.	60					15		75	10		85	198		12
Red Jacket Consolidated Coal Co.	Grapevine	56					12		68	15		73	280		16
Lynn Coal & Coke Co.	Lynn	19					13		32	17		49	122		9
Thacker Coal & Coke Co.	No. 2	10	15	5			12		42	10		52	188		24
Thacker Coal & Coke Co.	No. 3	4	95	18			35		152	45		197	265		8
Thacker Fuel Co.	No. 10	7	24	21			25		77	12		89	221		36
Glen Alum Coal Co.	Nos. 1 & 2	20	100	24			60		204	50		254	200		15
War Eagle Coal Co.	Pappoose		60	8			10		78	8		86	140		20
War Eagle Coal Co.	Mephisto		75	10			10		95	10		105	150		18
Margaret Mining Co.	Margaret		30	16			12		58	8		66	175		304
Totals		245	785	273			419		1,722	331		2,053	181		
Wayne County.															
East Lynn Coal Co.	No. 1	41					16		57	4		61			9
Totals.		41					16		57	4		61			9

*NATIONALITIES EMPLOYED AND THEIR PERCENTAGE JUNE 30TH.
1909.*

No.	NATIONALITY.	Total Number Employed	Percent- age of To- tal Nation- alities Re- ported.	Percent- age of Total No. of Em- ployes.
1	Americans (White)	24,696	47.927	39.711
2	Negro	10,550	20.474	16.964
3	Italian	6,585	12.779	10.589
4	Hungarian	3,183	6.177	5.118
5	Slavish	1,596	3.097	2.566
6	Polish	1,512	2.934	2.431
7	Russian	706	1.370	1.135
8	Austrian	631	1.225	1.015
9	Lithuanian	391	.759	.629
10	English	327	.635	.526
11	German	303	.588	.487
12	Greek	208	.405	.335
13	Roumanian	205	.398	.330
14	Scotch	186	.361	.299
15	Welsh	96	.186	.155
16	Irish	96	.186	.155
17	Syrian	81	.157	.130
18	Litvitch	64	.124	.103
19	Swedish	52	.101	.084
20	Belgian	17	.033	.027
21	Bohemian	17	.033	.027
22	French	10	.019	.016
23	Danish	8	.016	.013
24	Macedonian	8	.016	.013
	Totals	51,528	100.000	.....
	Unknown	10,661	.....	17.142
	Grand Totals	62,189	.....	100.000

**NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, BY COUNTIES, FOR THE YEAR
ENDING JUNE 30TH, 1909.**

COUNTY.	No. of Mines (Operated).	No. of Mines Reporting.	American. (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Lithvich.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employes.	Total Outside (Exclusive of Coke Yard).	Total Coke Employes.	Grand Totals.	
Brooke	9	3	104	38	70	80	25							80							5		45	10		388	765	80		845		
Hancock	27	22	1,352	117	854	250	215				26	117	60	7	14				7	1		1	32			708	3,252	631	30	3,922		
Marion	7	4	126	3	46	23	34				31	14	10						1	1		3	19		10	60	344	49		383		
Marshall	7	5	113	6	12	11	36				3	1		33	3				1	2			38			25	265	28		283		
Ohio	46	48	1,632	132	824	242	84				6		176		20		14		8		16		228	56	11	435	3,283	433		3,916		
Harrison	1																											55	5		55	
Lewis	1																															
Ushur	4	3	51	3	28		7																				26	101	14		115	
Barbour	17	10	288	68	178	59	42				4		2	10			7	1	1				19			132	745	108	24	877		
Monongalia	9	3	143	5	68	15	20																27			255	426	70	46	542		
Preston	19	7	460	13	63		50				4	1	21	29		6	3		3		3		25			742	1,253	90	71	1,423		
Taylor	16	10	345	14	71	9	9				2		4	4	8		3		2	1	1		88			64	518	102	3	623		
Grant	3	3	95	13	67		6				1			12	6		4										213	36		249		
Mineral	23	19	720	16	155	4	15				17		1		1				6	3	1	2				39	774	165		879		
Randolph	8	5	128		155		4																			310	442	60	96	598		
Tucker	13	12	282	74	437	31	169				1		2	91	19				3	5	2		109				1,102	144	110		1,356	
Braxton	2	1	60	2	11		7							8												12	91	9		100		
Glimer	1	1	27		3																						28	2		30		
Mason	7	5	184	8																						79	237	34		271		
Putnam	11	6	473																							321	801	204		1,005		
Clay	4	2	71																													
Payette	144	96	5,724	2,949	978		319				122	10	70	77	1		108		93	24	5	2	6			22	91	11	519	12,861		
Kanawha	223	91	4,620	626	172	154	90				44	4	40	14	68		82		43	11	8		25			1,732	10,338	1,404		6,922		
Boone	4	1	103	4																							9	20	3		23	
Nicholas	1	1	20	2																												
Greenbrier	1	1	20	2																												
Raleigh	43	24	1,062	455	137	83	67				26		3	3	30		15		15	12	61		10			798	2,429	390		2,819		
Mercer	30	17	907	927	398		42				7		2	3	6								33			367	2,223	400	310		2,933	
McDowell	113	70	3,217	4,419	1,648		1,056				21	1	1	10	416		36		4	4	130	4	401		111	3	2,888	10,955	1,616	2,018	14,589	
Lincoln	3	3	99																													
Logan	29	16	923								1			23	7		3				2											
Mingo	45	27	1,271	243	151	207	18				6		1								1						227	1,518	347	100	1,965	
Wayne	1	1	61																								105	1,714	339		2,053	
Totals	877	522	24,686	10,550	6,585	3,183	1,512	8	391	52	327	896	631	896	631	706	17	303	186	64	208	96	17	1,506	81	205	10	10,661	50,898	7,955	3,336	62,189

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1909.

COUNTY.	Where Employed.	Americans. (White)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scotch.	Lithuanian.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside. Employes.	Total Outside (Exclusive of Coke Yard.)	Total Coke Employes.	Grand Totals.
Brooke	Inside.....	64	38	61	75	25						80								5			45	10		362	765	80		
	Outside Coke Yard	40		9	5																					26				
Totals		104	38	70	80	25						80								5			45	10		388	765	80		845
Hancock	Inside.....	8		4	38																	32				15	97	10		
	Outside Coke Yard	9																								1				
Totals		17		4	38																	32				16	97	10		107
Marion	Inside.....	933	112	717	244	211	71		25	1	25	1	60	7	13	6	1	17				190				616	3,252	631		
	Outside Coke Yard	413	5	121	6	4			1		1				1							1				17				
Totals		1,352	117	854	250	215	71		26		26		60	7	14	7	1	17				202				708	3,252	631	38	3,922
Marshall	Inside.....	86	3	46	23	34			31				10					2	12			19				53	344	49		
	Outside Coke Yard	40																1								7				
Totals		126	3	46	23	34			31				10					3	12			19				60	344	49		383
Ohio	Inside.....	88	5	12	11	36			3		3	1	33		3	1	2					38				23	265	28		
	Outside Coke Yard	25	1																							2				
Totals		113	6	12	11	36			3		3	1	33		3	1	2					38				25	265	28		293
Harrison	Inside.....	1,161	117	760	218	84	30		5			155	20		14		8	14				221	56	9		412	3,283	633		
	Outside Coke Yard	471	15	64	24				1			21						2				7		2		23				
Totals		1,632	132	824	242	84	30		6			176	20		14		8	16				228	56	11		435	3,283	633		3,916

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1909.

COUNTY.	Where Employed.	Americans. (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scottish.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard.)	Total Coke Employees.	Grand Totals.		
Randolph	Inside	111		103		4						1												220	442					
	Outside	17		5																				38		60				
	Coke Yard			44																				52		96				
Totals		128		155		4						1												310	442	60	96	598		
Tucker	Inside	210	69	278	31	164	121	3	121	6	6	2	84	19			3	5	2		108				1,102		144			
	Outside	71	4	52		4				1										1								110		
	Coke Yard	1	1	107		1																								
Totals		282	74	437	31	168	124	1	124	7	7	2	91	19			3	5	2		109				1,102	144	110	1,356		
Braxton	Inside	52	2	11	7																			11	91		9			
	Outside	8																					1							
	Coke Yard																													
Totals		60	2	11	7																		12	91	9		100			
Gilmer	Inside	25		3																					28		2			
	Outside	2																												
	Coke Yard																													
Totals		27		3																					28	237	2		30	
Mason	Inside	156	8																					73	237		34			
	Outside	28																					6							
	Coke Yard																													
Totals		184	8																				79	237	34		271			
Putnam	Inside	345	100																					205	801		204			
	Outside	128	50									1												26						
	Coke Yard																													
Totals		473	210									1											321	801	204		1,005			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans, (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Lithvich.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard).	Total Coke Employees.	Grand Totals.	
Marion County.—Con't																															
Federal Coal & Coke Co.	Federal	Inside Outside Coke Yard	97 20 5	30 5	6 9	40 3	24 2			5	15	28	3	4	1	8						35					295	40		335	
The Virginia & Pittsburg Coal & Coke Co	Kingmont	Inside Outside Coke Yard	165 24		45 10	5 15																15					245	34	10	289	
Parker Run Coal & Coke Co.	Parker Run	Inside Outside Coke Yard			10																					46 6	46			52	
Harry B. Coal Co	Harry No. 1	Inside Outside Coke Yard	18 1		29 3																					47				51	
Killarm Coal & Coke Co.	Killarm No. 1	Inside Outside Coke Yard	8 6		4					1												1			12	25	7			52	
Pittsburg Steam Coal Co	Elizabeth	Inside Outside Coke Yard	19 3																							19		3		22	
Catawba Coal Co	Catawba	Inside Outside Coke Yard	9 2																							9		2		11	
Dakota Coal & Coke Co.	Dakota	Inside Outside Coke Yard	6 3		1 1																					7 4					11
Totals			1,352	117	854	250	215	71	26	117	60	7	14	7	1	117						202	2		798	3,252	631	39	3,922		
Marshall County.																															
Hitchman Coal & Coke Co	Hitchman	Inside Outside Coke Yard	32 20		40	20	25			20	14	10										15	10				186	20		206	
Bogg's Run M. & M'r'g Co	Bogg's Run.	Inside Outside Coke Yard	10 3			3																			3	16		3		19	

[illegible]

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans. (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scotch.	Lithvich.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard.	Total Coke Employees.	Grand Totals.
Harrison County-Con't.	Clarksburg Fuel Co	Inside Outside Coke Yard	10		6	13	1							20	1		1	2					7					60	7		8
	Clarksburg Fuel Co	Inside Outside Coke Yard	5			1																									
	Clarksburg Fuel Co	Inside Outside Coke Yard	34		1			8															7					50	14		67
	Clarksburg Fuel Co	Inside Outside Coke Yard	13		1																		7								
	Clarksburg Fuel Co	Inside Outside Coke Yard																									26	26			64
	Fairmont Coal Co	Inside Outside Coke Yard	60		49	18	3				4	1		28	9		1					1	14	1			22	197	53		250
	Fairmont Coal Co	Inside Outside Coke Yard	6	10	26	20	10							25	5													91	21		112
	Fairmont Coal Co	Inside Outside Coke Yard	20		9	7								22	2			2					1					61	8		69
	Fairmont Coal Co	Inside Outside Coke Yard	18	6	43	27									9												9	112	19		131
	Fairmont Coal Co	Solon	Inside Outside Coke Yard	20	3	36	2								3												28	92	19			111
Fairmont Coal Co	Gypsy	Inside Outside Coke Yard	23	13	42	7				2			4	1									1	5				96	38		135
Fairmont Coal Co	Meadowbrook	Inside Outside Coke Yard	15	30	10	5				1												10				3	74	15			89

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scotch.	Lithvian.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside of (Exclusive of Coke Yard).	Total Coke Employees.	Grand Totals.
Harrison County.—Con.																															
Monroe Colliery Co.	Sylvester	Inside Outside Coke Yard	8		23																							31	8		39
National Coal Co	National	Inside Outside Coke Yard	18				2																					20	2		22
Fayette Coal Co	Fayette	Inside Outside Coke Yard	10		15																							25	5		30
Short Line Coal Co	Girard No. 2.	Inside Outside Coke Yard	41		35																							76	13		89
Fairmont & Baltimore C. & C. Co	Fairmore	Inside Outside Coke Yard	70		10									5													85	15		100	
Madeira-Hill-Clark C. Co	Goff	Inside Outside Coke Yard	24	1	22	1																					48	5		53	
Madeira-Hill-Clark C. Co	Waldo	Inside Outside Coke Yard	47	4	25	1											4				2			136			120	16		136	
Madeira-Hill-Clark C. Co	Randolph and New Chieftain	Inside Outside Coke Yard	53	22	32	6											2						8				123	33		156	
Southwestern Coal Co	Miller No. 1	Inside Outside Coke Yard	14	2	12																		1				29	5		34	
Washington Fuel Co.	Miller No. 1	Inside Outside Coke Yard																					18				3	3		21	
O'Gara C. Mining Co.	O'Gara	Inside Outside Coke Yard	14	3	42																		11				70	8		78	

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scotch.	Lithvich.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside of (Exclusive of Coke Yard).	Total Coke Employees.	Grand Totals.
Barbour County.—Con. The Century Coal Co. of West Virginia	Century No. 2	Inside	18		30		6	7			3												5					69	7		76
		Outside Coke Yard	7																										33		
Grafton Fuel Co	Lillian No. 1.	Inside																										33	2		35
		Outside Coke Yard																										33			
Grafton Fuel Co.	Lillian No. 2	Inside																										33	2		35
		Outside Coke Yard																										2			
Davis Coal & Coke Co.	Weaver No. 3.	Inside	24		22		4					1																51	6		57
		Outside Coke Yard	6																												
Miller Coal & Coke Co.	Sara	Inside	18																									18	3	4	25
		Outside Coke Yard	3		4																										
Davis Colliery Co.	Junior No. 1.	Inside	2																									2	1		3
		Outside Coke Yard	1																												
Midland Coal & Coke Co.	Midland	Inside																										41	6	20	67
		Outside Coke Yard	11																									6			
Luella Coal & Coke Co.	Luella	Inside	2																									11	2		13
		Outside Coke Yard																													
Humphreys Collieries Co	Humph. Coll.	Inside																										12	1		13
		Outside Coke Yard																										1			
Totals			288	68	178	59	42	41			4	2	10				7	1	1				19	4	1	152	745	108	24	877	
Monongalia County. Opekiska Coal & C. Co	Opekiska	Inside. Outside. Coke Yard																										38			38

Fairmont Coal Co	Inside..... Outside Coke Yard	28 9	18 2															8	59	12	71
Elkins Coal & Coke Co.	Inside..... Outside Coke Yard																	178	178		178
Elkins Coal & Coke Co.	Inside..... Outside Coke Yard																	23	23	3	178
Connellsville Basin Coke Co	Inside..... Outside Coke Yard	47 36	4 1	38 8	14 3													103	103	48	26
Great Scott C. & C. Co.	Inside..... Outside Coke Yard				12													3	3	2	197
Grant Coal Co	Inside..... Outside Coke Yard	16 2																22	22	5	5
Totals.		143	5	66	15	29												255	426	70	542
Preston County. Austen Coal & Coke Co	Inside..... Outside Coke Yard																	135	135	36	171
Austen Coal & Coke Co	Inside..... Outside Coke Yard	26 2	5 30	9														36	70	2	72
Hamilton Coal & C. Co.	Inside..... Outside Coke Yard																	15	15	8	23
Gorman Coal & C. Co.	Inside..... Outside Coke Yard																	12	12		12
Gorman Coal & C. Co.	Inside..... Outside Coke Yard																	71	71	6	77
Irona Coal & C. Co.	Inside..... Outside Coke Yard	21 4																21	21	4	25
Irona Coal & C. Co.	Inside..... Outside Coke Yard	32 5	10	8														62	62	5	67
Merchant's Coal Co	Inside..... Outside Coke Yard	170 28	16	1														202	202	28	230
Oakland Coal & Coke Co	Inside..... Outside Coke Yard																	25	25	2	27

T. B. Davis.....	Inside.....	20	12	4	2	1	3	50	8	.....	58
	Outside.....	8						.....		.....
	Coke Yard.....							61	20	.....	81
McGraw Coal Co.....	Inside.....	20	23					.....		.....
	Outside.....	20						.....		.....
	Coke Yard.....	101	4	2	5	1	4	149	16	.....	165
Rosemont Coal Co.....	Inside.....	15				1		.....		.....
	Outside.....	17						65	16	.....	81
	Coke Yard.....	14	23			1	23	.....		.....
Maryland Coal Co.....	Inside.....	10	2					10	5	.....	18
	Outside.....	4						.....		.....
	Coke Yard.....	1						6	3	.....	6
Winona Coal & Coke Co.....	Inside.....	2				1		.....		.....
	Outside.....	1						2	5	.....	7
	Coke Yard.....	1	1					38	2	.....	40
Winona Coal & Coke Co.....	Inside.....	1						.....		.....
	Outside.....	1						.....		.....
	Coke Yard.....	1						.....		.....
Johnson Bros. Coal Co.....	Inside.....	2						.....		.....
	Outside.....	1						.....		.....
	Coke Yard.....	1						.....		.....
Cecil.....	Inside.....	2						.....		.....
	Outside.....	1						.....		.....
	Coke Yard.....	1						.....		.....
Harrison Coal Co.....	Inside.....	2						.....		.....
	Outside.....	1						.....		.....
	Coke Yard.....	1						.....		.....
East Grafton Coal Co.....	Inside.....	345	14	9	2	1	88	518	102	3	623
	Outside.....	13	60	1	44	1	12	172	32	.....	204
	Coke Yard.....	22	7	1				.....		.....
Totals.....	Inside.....	28	60	5				.....		.....
	Outside.....	22	7	1				.....		.....
	Coke Yard.....	29						.....		.....
Grant County, Davis Coal & Coke Co.....	Inside.....	2						.....		.....
	Outside.....	12						.....		.....
	Coke Yard.....	2						.....		.....
Buffalo Creek Cumber- land Coal Co.....	Inside.....	95	13	67	6	44	1	213	36	.....	249
	Outside.....	2						.....		.....
	Coke Yard.....	30						.....		.....
Cottage Street Coal Co.....	Inside.....	30						.....		.....
	Outside.....	2						.....		.....
	Coke Yard.....	130	2					.....		.....
Totals.....	Inside.....	13						.....		.....
	Outside.....	13						.....		.....
	Coke Yard.....	13						.....		.....
Mineral County, Davis Coal & Coke Co.....	Inside.....	30						.....		.....
	Outside.....	2						.....		.....
	Coke Yard.....	130	2					.....		.....
Davis Coal & Coke Co.....	Inside.....	13						.....		.....
	Outside.....	13						.....		.....
	Coke Yard.....	13						.....		.....

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	German.	Scottish.	Lithuanian.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard.)	Total Coke Employees.	Grand Totals.
<i>Mineral County—Con't</i>																														
Davis Coal & Coke Co.	Tyson No. 10	Inside..... Outside..... Coke Yard.....	43 5																								43	5		48
Davis Coal & Coke Co.	Kittanning 14	Inside..... Outside..... Coke Yard.....	47 4	11 3																							58	7		65
Davis Coal & Coke Co.	Kittanning 15	Inside..... Outside..... Coke Yard.....	6 1	8																							14	1		15
Davis Coal & Coke Co.	Ott No. 20	Inside..... Outside..... Coke Yard.....	36 9	2			4																				42	9		51
Davis Coal & Coke Co.	Montgomery Run No. 19	Inside..... Outside..... Coke Yard.....	53 23	7			4	2		8						1											75	23		98
Davis Coal & Coke Co.	Hampshire 50	Inside..... Outside..... Coke Yard.....	28 3	3 1				1		5						1											39	4		43
Davis Coal & Coke Co.	Hampshire 51	Inside..... Outside..... Coke Yard.....	36 6	2								4					2										44	6		50
Abrams Creek Coal & Coke Co.	Oakmont	Inside..... Outside..... Coke Yard.....	43 5					3						1			3									2	52	5		57
Piedmont & Potomac Coal Co.	Virginia	Inside..... Outside..... Coke Yard.....					3	1																		10	10			10
Masteller Coal Co.	Hampshire	Inside..... Outside..... Coke Yard.....	32 6	8	7																						51	6		57
Smith Coal Co.	Smith	Inside..... Outside..... Coke Yard.....	42 5	3															1								45	6		51

[illegible]

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Austrian.	Russian.	Belgian.	German.	Scotch.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard.)	Total Coke Employees.	Grand Total.
The Fayette County Manufacturers & Consumers Coal Co.	Newlyn	Inside..... Outside..... Coke Yard.....	90 7																							90	7		97
The Fayette Coal & Coke Co.	Fayette	Inside..... Outside..... Coke Yard.....	40 5	5																						45	5		50
Brown Coal Co.	Brown	Inside..... Outside..... Coke Yard.....	79 10	49 5																	11 1					139	16		155
Nuttallburg Collieries Co.	Nuttall & Keene's Creek	Inside..... Outside..... Coke Yard.....	71 9	35 1																						106	10		116
Holliday Coal Co.	Keeney's Cr'k	Inside..... Outside..... Coke Yard.....	42 5	1						1				1						1						46	5		51
Keeney's Creek Colly Co.	Smokeless	Inside..... Outside..... Coke Yard.....	74 7	40 4																						114	11		125
Keeney's Creek Colly Co.	Boone	Inside..... Outside..... Coke Yard.....	44 6	22 1																						66	7		73
Ballinger Coal Co.	Ballinger No. 1	Inside..... Outside..... Coke Yard.....	46 5	36 3														2								84	8		92
Ballinger Coal Co.	Ballinger No. 2	Inside..... Outside..... Coke Yard.....	5 1	4																						9	1		10
Rothwell Coal Co.	Dubree	Inside..... Outside..... Coke Yard.....	34 5	15 1										1												50	7		57
Blume Coal & Coke Co.	Blume	Inside..... Outside..... Coke Yard.....	105 4	15																						120	4		124

36TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	Belgian.	German.	Scotch.	Lithuan.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside of Coke Yard.	Total Coke Employees.	Grand Totals.
<i>Fayette County.</i> —Con't																															
Quinnimont Coal Co	Big Q	Inside..... Outside Coke Yard	28 10	32 10	15																							75	20	95	
Greenwood Coal Co.	Greenwood	Inside..... Outside Coke Yard	48 10	52 15																								100	25	125	
Hemlock Hollow Coal & C. Co	Hemlock	Inside..... Outside Coke Yard																									110 10	10	120		
New River & Poca Cons. Coal Co	Layland	Inside..... Outside Coke Yard	98 22	19 7	61	2	6							22 2			17 13						7 10				255 10	31	286		
New River & Poca Cons. Coal Co	Minden No. 1	Inside..... Outside Coke Yard	19 5	2		7																					26	7	33		
New River & Poca Cons. Coal Co	Minden No. 2	Inside..... Outside Coke Yard	95 10	15 5	5	30	20										20	5									190	15	205		
New River & Poca Cons. Coal Co	Minden No. 3	Inside..... Outside Coke Yard	90 12	10 5	4	15	10	6									5	15				1		10			165	22	187		
New River & Poca Cons. Coal Co	Minden No. 4	Inside..... Outside Coke Yard	90 25	7 6	10 3	12	10										5	5						10			153	34	187		
New River & Poca Cons. Coal Co	Minden No. 5	Inside..... Outside Coke Yard	70 14	10 4	4	15	15										8	2						10			154	20	174		
New River Valley C. Co.	Bachman	Inside..... Outside Coke Yard																									11 2	10	2	13	
Matts Branch Coal Co.	Whitney	Inside..... Outside Coke Yard																									10 1	10	1	11	

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans. (White).	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	German.	Scotch.	Lithich.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Romanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard.)	Total Coke Employees.	Grand Totals.
<i>Kanawha County—Con't</i>																														
Frank Ellison	Peerless	Inside..... Outside..... Coke Yard.....	27 2																								27	2		29
Winifrede Coal Co.	South	Inside..... Outside..... Coke Yard.....	84 13	9									1														94	13		107
Winifrede Coal Co.	North Pick	Inside..... Outside..... Coke Yard.....	79 12	7			1																				87	12		99
Winifrede Coal Co.	West	Inside..... Outside..... Coke Yard.....	54 7	5																							59			66
Winifrede Coal Co.	New Coalburg	Inside..... Outside..... Coke Yard.....	85 16	3																							8	16		104
Dry Branch Coal Co.	Gas No. 1	Inside..... Outside..... Coke Yard.....	50 4																								50	4		54
Dry Branch Coal Co.	Coalburg No. 2	Inside..... Outside..... Coke Yard.....	17 9																								17	9		26
Dry Branch Coal Co.	Belmont No. 3	Inside..... Outside..... Coke Yard.....	56 7																								56	7		63
Coalburg Colliery Co.	Ronda	Inside..... Outside..... Coke Yard.....	71 17																								71	17		88
Wyatt Coal Co.	Oakley	Inside..... Outside..... Coke Yard.....	43 11	8																							51	11		62
Wyatt Coal Co.	Berlin	Inside..... Outside..... Coke Yard.....	35 10	10 4			12										11		1								68	15		83

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Welsh.	Austrian.	Russian.	German.	Scottish.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside of Coke Yard.)	Total Coke Employees.	Grand Totals.
<i>Nicholas County—Con't</i>																													
Saxman Coal & Coke Co.	Saxman	Inside..... Outside..... Coke Yard	17..... 5.....		1		6																			24	5	29	
Totals.....			103	2	1		6																			93	19	112	
<i>Greenbrier County.</i>																													
Elk Lick Coal Co	Lost Flat	Inside..... Outside..... Coke Yard	15..... 5.....	1..... 1.....		8..... 1.....	2.....						1.....	6.....	1.....				9..... 1.....							42	9	51	
Totals.....			20	2		8	3					1	6	1							10					42	9	51	
<i>Raleigh County.</i>																													
Big Coal Co	Dorothy	Inside..... Outside..... Coke Yard	57..... 23.....	2..... 2.....	4..... 9.....	2.....	12.....								4			61								162	34	196	
The New River Collieries Co	Royal	Inside..... Outside..... Coke Yard	10..... 5.....	10.....																						30	5	35	
The New River Collieries Co	Lanark No. 3.	Inside..... Outside..... Coke Yard	7..... 3.....	13.....																						20	3	23	
The New River Collieries Co	Lanark No. 4.	Inside..... Outside..... Coke Yard	32..... 8.....	15.....	17.....																				64				
The New River Collieries Co	Eccles No. 11.	Inside..... Outside..... Coke Yard	39..... 6.....	11.....	15.....	5.....	10.....							5		1					4			10	100	6		72	
McKell Coal & Coke Co.	Oswald and Sidney	Inside..... Outside..... Coke Yard																						108	108	11		106	
McKell Coal & Coke Co.	Graham	Inside..... Outside..... Coke Yard																						49	49	15		119	
																								15	15			64	

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE
30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Swedish.	English.	Danish.	Austrian.	Russian.	Belgian.	German.	Lithvich.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside (Exclusive of Coke Yard).	Total Coke Employees.	Grand Totals.	
<i>Raleigh County.—Con't</i>																													
Cranberry Fuel Co.	Sprague	Inside..... Outside..... Coke Yard.....	78 8 8	8	3	10	7								6										115	11		126	
Cranberry Fuel Co.	Cranberry	Inside..... Outside..... Coke Yard.....	21 24 2	20 2 4	5 4	10 3	10		12			3	2												83	30		113	
Cranberry Fuel Co.	Prosperity	Inside..... Outside..... Coke Yard.....	19 9	15 3	4 3	3			5				3			7									56	12		68	
Mabscott Coal & Coke Co	Mabscott	Inside..... Outside..... Coke Yard.....	32 8	25 1	2	5	4		1						2						2				72	11		83	
Beckley Coal & Coke Co.	Beckley	Inside..... Outside..... Coke Yard.....																							253			253	
Price Hill Fuel Co.	Price Hill	Inside..... Outside..... Coke Yard.....																							100	5		105	
Slab Fork Coal Co.	Nos. 1, 2, 3 and 4	Inside..... Outside..... Coke Yard.....																							114	8		122	
E. E. White Coal Co.	Nos. 1 and 2	Inside..... Outside..... Coke Yard.....	30 56	20 9	30 40		6						5			2					4				97	105		202	
Totals			1032	455	137	83	67	10	2	26	3	3	30	2	15	15	12	61			40		738	2,429	390		2,819		
<i>Mercer County.</i>																													
Mill Creek Coal & C. Co.	Coaldale	Inside..... Outside..... Coke Yard.....	45 28	68 3	3	20	10							2											148				
Mill Creek Coal & C. Co.	Mill Creek East West & Tug River	Inside..... Outside..... Coke Yard.....	52 4 9	18 7 38	6 5 7	16 6							1												200	24		204	
																										22	54		276

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR YEAR ENDING JUNE 30TH, 1909.

NAME OF COMPANY.	NAME OF MINE.	Where Employed.	Americans (White.)	Negro.	Italian.	Hungarian.	Polish.	Macedonian.	Lithuanian.	Swedish.	English.	Danish.	Austrian.	Russian.	Belgian.	German.	Scottish.	Lithvich.	Greek.	Irish.	Bohemian.	Slavish.	Syrian.	Roumanian.	French.	Unknown.	Total Inside Employees.	Total Outside of Coke Yard.	Total Employees.	Grand Totals.
McDowell County—Con.	Jed.	Inside Outside Coke Yard																									177 30	30		
	No. 1.	Inside Outside Coke Yard	26 17	39 15		113 4	20										45										243	36		207
	No. 2.	Inside Outside Coke Yard	34 151	10 64	8 79	14								17			83				4						384	14		279
	No. 3.	Inside Outside Coke Yard	20 4	40 5	4 9	35	5						11				8	1	4	55	2						180	18		625
	No. 4.	Inside Outside Coke Yard	27 9	54 21	12 5	35	2					16						2									148	39		237
	No. 5.	Inside Outside Coke Yard	25 9	7 6	20 4	19																					72	14		240
	No. 6.	Inside Outside Coke Yard	16 4	20 4	2 3	83	2					1															228	24		108
	No. 7.	Inside Outside Coke Yard	13 6	56 4	14 3	64	6													4							160	25		352
	No. 8.	Inside Outside Coke Yard	8 2	19 3	9 4	20	10							6	3					19							100	9		285
	No. 9.	Inside Outside Coke Yard	13 14	31 1	1 11	33	12								8												114	26		140
No. 10.	Inside Outside Coke Yard	17 5	12 3		62	7																				98	9		107	

U. S. Coal & Coke Co.	No. 11.	Inside Coke Yard	29 5	20 6	81	7	1											4	10	4	151	16	167
U. S. Coal & Coke Co.	No. 12	Inside Coke Yard	20 12	25 1	20 22	15												5	8	9	105	35	140
Central Pocahontas Coal Co.	Anawalt	Inside Coke Yard																			8 3	3	11
Black Wolf Coal & C. Co	No. 4	Inside Coke Yard	30 20	20 15		13															63	15	78
Page Coal & Coke Co.	Nos. 1 and 3	Inside Coke Yard	50 20	60 15	50 15	30															170	55	251
Page Coal & Coke Co.	No. 2	Inside Coke Yard	1 8	45 26	1 1																35	46	35
Welch Coal & Coke Co.	Welch	Inside Coke Yard	20 10	26 14																	60	10	70
Hemphill Colliery Co.	Hemphill	Inside Coke Yard	10 2	32 1	11																53	3	56
Middle States Coal & Coke Co.	No. 11	Inside Coke Yard	45 13	18 3	35 6	10															127	22	187
Dixon-Pocahontas Fuel Co.	North Side	Inside Coke Yard		15	23																55 15	38	187
Dixon-Pocahontas Fuel Co.	South Side	Inside Coke Yard																			59 7	15	70
Cirrus Coal & Coke Co.	Cirrus No. 1	Inside Coke Yard	16 4	11 4		6 2															37	10	65
Cirrus Coal & Coke Co.	No. 2	Inside Coke Yard	15	5																	15	5	47
Virginia Fuel Co.	Virginia	Inside Coke Yard	10 3	4 3		6															20	6	20
The King Coal Co.	King	Inside Coke Yard	11 10	123 10	3																140	20	26
The Tidewater Coal & Coke Co.	Tidewater	Inside Coke Yard	12 10	124 10	4																140	20	160
			20																		20	20	180

Thacker Coal & Coke Co	Thacker No. 3	Inside	40	20	5	37	5											152	45	.....	197
		Coke Yard	20	5																	
Thacker Fuel Co	Thacker No. 10	Inside	46	6	12	5												79	10	.....	89
		Coke Yard	10																		
Glen Alum Coal Co	Nos. 1 and 2	Inside	88	37	49	24												204	50	.....	254
		Coke Yard	24	13	11	2															
War Eagle Coal Co	Pappoose	Inside	50	28														78	8	.....	86
		Coke Yard	8																		
War Eagle Coal Co	Mephisto	Inside	60	30	5													95	10	.....	105
		Coke Yard	8	2																	
Margaret Mining Co	Margaret No. 1	Inside	36	10	7	5												58	8	.....	66
		Coke Yard	8																		
Totals		Inside	1271	243	151	207	18											1,714	339	.....	2,053
		Coke Yard																			
Wayne County	East Lynn No. 1	Inside	60															60	1	.....	61
		Coke Yard	1																		
East Lynn Coal Co		Inside																			
		Coke Yard																			
Totals			61															60	1	.....	61

TABLE SHOWING AVERAGE PRICE PAID PICK MINERS PER YEAR
AND MONTH FROM 1897 TO 1909 INCLUSIVE.

YEAR.	Average Earnings of Each Pick Miner Per		Average Price Per Ton of 2,240 Lbs. Received for Pick Mining (Run of Mine.)
	Year.	Month.	
1897.....	\$ 275.58	\$ 22.96	\$.35 1-5
1898.....	316.39	26.36	.33 9-10
1899.....	367.84	30.65	.3612
1900.....	451.77	37.65	.4106
1901.....	459.56	38.29	.441
1902.....	533.56	44.46	.471
1903.....	499.06	41.59	.491
1904.....	484.96	40.41	.491
1905.....	508.01	42.17	.47
1906.....	599.37	49.95	.48
1907.....	643.05	53.59	.49
1908.....	503.84	41.99	.46
1909.....	481.17	40.10	.43

**WAGES PAID AND SELLING PRICE OF COAL AND COKE FOR THE
YEAR ENDING JUNE 30TH, 1909.**

COUNTY.	Paid Pick Miners per Ton of 2,240 lbs.				Selling Price of	
	Run of Mine.			Screened	Coal. (Tons of 2,240 Lbs.)	Coke. (Tons of 2,000 Lbs.)
	Day.	Room.	Heading.	Room.		
Brooke.....	\$.....	\$.....	\$.....	\$ 1.01	\$ 1.04	\$.....
Hancock.....		.40		.78	1.12	
Marion.....		.34	.40		.89	1.53
Marshall.....	2.25			.80	1.01	
Ohio.....				.84	1.18	
Harrison.....		.29	.37		.68	
Lewis.....					.67	
Upshur.....		.48	.56		.79	
Barbour.....		.38	.45		.76	1.45
Monongalia.....		.37	.51		.75	1.88
Preston.....		.44	.51		.78	1.63
Taylor.....		.38	.43		.76	1.30
Grant.....		.46			.98	
Mineral.....		.55	.64		.91	
Randolph.....		.44			.88	1.69
Tucker.....		.50			1.11	1.89
Braxton.....		.40			.85	
Gilmer.....		.50	.56		.65	
Mason.....	2.25	.63		.74	1.04	
Putnam.....		.43		.73	1.20	
Clay.....		.56			.98	
Fayette.....	} Kanawha River Series.....				1.02	1.70
	} New River Proper.....				1.10	2.43
	} Loup Creek.....				1.20	2.55
Kanawha.....		.50		.76	1.03	
Boone.....		.40			.82	
Nicholas.....		.54	.60		.95	
Greenbrier.....		.50			1.33	
Raleigh.....		.39	.49		1.02	
Mercer.....		.35	.41		.96	1.66
McDowell.....	} Pocahontas No. 3.....				.98	1.77
	} Pocahontas Thin Vein.....				.98	
Lincoln.....		.56	.69		.96	
Logan.....		.32			.96	
Mingo.....		.30	.38		.96	
Wayne.....		.49	.54		.94	
Averages.....	\$2.25	\$.43	\$.49	\$.80	\$.95	\$ 1.79

Fayette { Long Creek Long Creek	30			2.62	Day	2.21	Day
	27			{ 2.75	Day	2.13	Day
				.054	Long Ton (Room)	.04	Long Ton (Room)
				2.45	Day	2.27	Day
Kanawha	22	30		.08	Long Ton (Room)	1.074	Long Ton (Room)
				1.50	Place	.65	Foot
				.05	Foot	2.35	Day
				2.35	Day	2.13	Day
Nicholas	30	35		2.50	Day	1.75	Day
	27	35		2.75	Day	2.00	Day
	30	35		2.50	Day	1.92	Day
	32	45		2.50	Place	.45	Place
McDowell { Pocahontas No. 3 Thin Vein	25	33		.50	Long Ton (Room)	.06	Long Ton (Room)
	24	30		.07	Long Ton (Room)	2.00	Day
	24	30		2.50	Day	.07	Long Ton (Room)
	24	30		.09	Long Ton (Room)	.10	Long Ton (Room)
Lincoln	25	33		.12	Long Ton (Heading)	1.42	Day
	24	30		2.63	Day	.07	Long Ton (Room)
	24	31		.11	Long Ton (Room)	2.08	Day
	24	31		2.50	Day	.06	Long Ton (Room)
Mingo	20	32	54	.07	Long Ton (Room)	.11	Long Ton (Heading)
				.30	Run	.20	Room
				.50	Room	.80	Place
				.83	Place	.25	Heading
Averages				.11	Long Ton (Heading)	.06	Foot
				.004	Foot (Room)	.06	Foot
				.10	Long Ton (Screened)	.10	Long Ton (Screened)

STATEMENT OF THE TONNAGE OF COAL AND COKE FROM THE COLLIERIES IN WEST VIRGINIA HANDLED
AND TRANSPORTED BY THE RAILROADS IN THE STATE DURING THE TWELVE MONTHS ENDING

JUNE 30TH, 1909. (Quantities are expressed in tons of 2,000 lbs.)

Name of Railroad Company.	Total Tons Handled.		Tons Originating on the Line.		Tons Delivered to the Line by other Railroads in West Virginia.		Tons Delivered to other Lines in West Virginia.		W. Va. Fuel used by the Line in the State.		Railroads and Docks to which Product is Delivered for Distribution.	Points of Destination of the Product.	
	Coal.	Coke.	Coal.	Coke.	Coal.	Coke.	Coal.	Coke.	Coal.	Coke.		East.	West.
Baltimore & Ohio R. R. Co.....	8,304,562	429,908	7,709,860	162,565	594,702	267,403			No data		Various.	All Sections.	All sections, as far as Pacific Coast.
Western Maryland R. R. Co.....	2,425,924	212,300	2,331,021	195,218	94,903	17,091	71,874	7,317	185,721	109	B. & O. R. R.; P. & E. R. R.; Penna. R. R.; Coal & Coke Ry.; and Port Covington Coal Piers, Baltimore, Md.	Coal Pier at Baltimore, Philadelphia and New York and local points on W. Maryland R. R.; Penn. R. R.; and P. & E. R. R.; and connections.	Various Western Points reached via B. & O. R. R. and Coal & Coke Ry. and their connections.
Kanawha & Michigan R. R. Co.....	2,464,374	221,175	2,231,730	202,387	232,635	18,788	no record	no record	no record	10	Various railroads thruout various States Lake coal handled over Docks at Toledo on both Hooking Valley and Toledo and Ohio Central railroads; Piers; Toledo & Sandusky Docks; S. A. Line; A. C. Line; S. O. Ry.; L. & N. R. R.; & O. C. Lines, land	Various points thruout the country.	All Points in Ohio, Indiana and Lake Points.
Norfolk & Western Ry Co.....	12,428,385	2,266,496	11,128,988	1,984,210	6,637	882	63		no record	no record	Lambert Pt. Piers; Toledo & Sandusky Docks; S. A. Line; A. C. Line; S. O. Ry.; L. & N. R. R.; & O. C. Lines, land	Foreign Ports and Atlantic Coast (Tide-water) Virginia; N. & S. Carolina points (In-land).	Cincinnati; Lake Points; Chicago; and Western Cities.

Chesapeake & Ohio Ry. Co	13,100,120	376,141	12,940,209	293,460	150,830	79,681	743	2,845	614,838	801	Southern Ry.; A. C. Line; Seaboard Air Line; R. F. & P. Ry.; C. C. & St. L. Ry.; P. C. C. & St. L. R.; B. & O. & W.; C. H. & D.; & C. C. & L.	Newport News Richmond; Various South- ern Points; Washington; Lynchburg and Local Points.	Cincinnati; Chi- cago; Toledo; Various Points in Ohio, Indiana and Michigan; and Local Points.
Coal & Coke Ry. Co	378,180	54,575	351,214	54,535	26,965	40	371,175	54,575	36,770	.....	West'n Mary- land R. R.; B. & O. R. R.	Port Reading; Port Rich- mond.	Chicago; Toledo; Detroit; Colum- bus; Cleveland Lake Points.
Totals	20,101,554	3,560,604	36,702,121	2,895,315	1,106,073	383,885	443,855	64,737	867,329	910	Ohio Central Lines.	Philadelphia; Net Cong. & other Points.	

**NUMBER OF KEGS OF POWDER USED AT THE MINES, BY
COUNTIES, FOR 1909.**

COUNTY.	Number of opera- tions re- porting.	Tons of Coal (Tons of 2,240 lbs.)	No. Kegs of Powder Used.	Cost Per Keg to Miner	No. Pounds of Dyna- mite used	Pounds of so-called Safety Powder used
Brooke.....	4	351,180	3,366	\$1.62		
Marion.....	14	1,619,790	16,316	1.60	150	333,280
Marshall.....	2	28,667	190	1.70		
Ohio.....	6	148,134	1,070	1.64		
Harrison.....	22	1,483,557	14,169	1.62	325	115,112
Lewis.....	1	13,780	258	2.00		
Upshur.....	2	12,003	610	1.65	400	
Barbour.....	11	300,647	5,237	1.61		153,357
Monongalia.....	4	145,185	1,873	1.60		
Preston.....	14	606,699	9,775	1.57	3,800	1,675
Taylor.....	6	343,841	2,814	1.55	1,400	1,200
Grant.....	3	177,406	2,125	1.78		8,000
Mineral.....	14	358,910	4,246	1.62	1,185	
Randolph.....	7	463,206	5,970	1.60	600	
Tucker.....	9	999,957	6,455	1.75	23,415	500
Braxton.....	2	93,024	1,908	1.75	150	
Gilmer.....	1	14,740	200	1.75	50	
Mason.....	4	73,429	2,630	1.80		
Putnam.....	6	376,634	12,000	1.75	2,325	
Clay.....	1	4,464	300	1.75		
Fayette.....	80	5,048,433	99,617	1.87	30,830	214,793
Kanawha.....	83	3,403,800	40,899	1.75	7,160	2,040
Boone.....	1	2,915	102	1.80		
Nicholas.....	3	23,339	576	1.73	1,500	1,200
Greenbrier.....	1	32,296	460	2.00		
Raleigh.....	23	205,610	7,224	1.87	1,500	101,035
Mercer.....	16	1,963,901	30,540	2.00	14,750	12,250
McDowell.....	81	8,731,251	84,803	2.00	187,539	226,419
Lincoln.....	1	41,288	420	1.75		
Logan.....	14	1,545,681	13,748	1.75		
Mingo.....	21	1,485,371	20,065	1.87	4,450	
Wayne.....	1	34,619	1,316	1.85		
Totals.....	458	30,133,757	391,282	1.75	281,529	1,170,861

STEAM BOILERS AT MINES—1909.

COUNTY.	Number of Boilers Insured.	Number of Boilers not Insured	Total Number of Boilers.
Brooke.....	8		8
Hancock.....	1		1
Marion.....	25	56	81
Marshall.....	10	6	16
Ohio.....		2	2
Harrison.....	21	42	63
Lewis.....		1	1
Upshur.....	1	1	2
Barbour.....	18	8	26
Monongalia.....		10	10
Preston.....	32	1	33
Taylor.....	9	2	11
Grant.....	6		6
Mineral.....	9	7	16
Randolph.....	13		13
Tucker.....	25	2	27
Mason.....	1	6	6
Putnam.....	3	15	18
Clay.....		1	1
Fayette.....	201	23	224
Kanawha.....	117	16	133
Nicholas.....	3	1	4
Greenbrier.....	1		1
Raleigh.....	66		66
Mercer.....	67	3	70
McDowell.....	214	14	228
Lincoln.....		2	2
Logan.....	20		20
Mingo.....	40	9	49
Totals.....	910	228	1,138

*SUMMARY OF THE NUMBER OF MINE LOCOMOTIVES IN THE
STATE—1909.*

COUNTY.	No. of Mines Using Locomotives.	Locomotives.			
		Steam.	Electric.	Comp. Air.	Sum Total.
Brooke.....	5		10		10
Hancock.....	1		1		1
Marion.....	15		33	6	39
Marshall.....	4		10		10
Ohio.....	2		2		2
Harrison.....	25	6	29		35
Lewis.....	1			1	1
Upshur.....	1		4		4
Barbour.....	6		11		11
Monongalia.....	4		12		12
Preston.....	6		14		14
Taylor.....	4		7		7
Grant.....	1		4		4
Mineral.....	5	3	3		6
Randolph.....	2		5		5
Tucker.....	8	2	16		18
Mason.....	3	1	2		3
Putnam.....	6		11		11
Clay.....	1		1		1
Fayette.....	83	21	173	1	195
Kanawha.....	72	3	107		110
Nicholas.....	2		2		2
Raleigh.....	23	3	42		45
Mercer.....	17	15	15		30
McDowell.....	79	18	160	1	179
Logan.....	12		28		28
Mingo.....	14	6	21	*1	28
Totals.....	402	78	723	10	811

* Not in use.

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909.

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Brooke County.</i>				
La Belle Coal Co.....	Lewis No. 1.....		1	
Beech Bottom Coal Co.....	Beech Bottom No. 1.....		3	
Lewis-Findley Coal Co.....	Locust Grove.....		3	
La Belle Iron Works.....	La Belle Shaft.....		3	
Rex Carbon Coal Co.....	Rex No. 1.....		1	
Totals.....			10	
<i>Hancock County.</i>				
The Marquet Coal Co.....	No. 4.....		1	
Totals.....			1	
<i>Marion County.</i>				
Fairmont Coal Co.....	Montana.....		1	
Fairmont Coal Co.....	Shaft.....		2	
Fairmont Coal Co.....	New England.....		5	
Fairmont Coal Co.....	Gaston.....		2	
Fairmont Coal Co.....	Monongah No. 2.....		2	
Fairmont Coal Co.....	Monongah No. 6.....		4	
Fairmont Coal Co.....	Monongah No. 8.....		6	
Fairmont Coal Co.....	Shaver.....		2	
Fairmont Coal Co.....	Anderson.....		1	
Fairmont Coal Co.....	Highland.....		2	
Fairmont Coal Co.....	Middleton.....		2	
Fairmont Coal Co.....	Chiefton.....		1	
New Central Coal Co.....	Stafford.....			2
Federal Coal & Coke Co.....	Federal No. 1.....			4
The Virginia & Pittsburg Coal & Coke Co.....	Kingmont.....		3	
Totals.....			33	6
<i>Marshall County.</i>				
Hitchman Coal & Coke Co.....	Hitchman.....		2	
Wheeling Steel & Iron Co.....	Benwood.....		5	
Glendale Coal Co.....	Glendale.....		1	
Bituminous Coal Co. of America.....	Bituminous No. 1.....		2	
Totals.....			10	
<i>Ohio County.</i>				
Richland Coal Co.....	Richland.....		1	
Elm Grove Coal Co.....	Elm Grove.....		1	
Total.....			2	
<i>Harrison County.</i>				
Clarksburg Fuel Co.....	Fall Run.....		1	
Clarksburg Fuel Co.....	Pinnikinnick.....		2	
Clarksburg Fuel Co.....	Two Lick.....		1	
Clarksburg Fuel Co.....	Despard.....		1	
Fairmont Coal Co.....	Enterprise.....		4	
Fairmont Coal Co.....	Viropa.....		2	
Fairmont Coal Co.....	Riverdale.....		1	
Fairmont Coal Co.....	Ehlen.....		1	
Fairmont Coal Co.....	Gypsy.....		2	
Fairmont Coal Co.....	Meadowbrook.....		1	
Fairmont Coal Co.....	Globe.....		1	
Fairmont Coal Co.....	Dunham.....		1	
Fairmont Coal Co.....	Robinson Run.....		1	
Pittsburg & Fairmont Fuel Co.....	Perry.....		2	
Cook Coal & Coke Co.....	Girard No. 1.....		1	
Cook Coal & Coke Co.....	Girard No. 1A.....		1	
Corona Coal & Coke Co.....	Harold.....		1	
Meadow Brook Coal & Coke Co.....	Erie.....		1	
Short Line Coal Co.....	Girard No. 2.....	2		

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Harrison County.—Con't.</i>				
Fairmont & Baltimore Coal & Coke Co	Fairmore	1		
Southwestern Coal Co.	Miller No. 1	1		
Washington Fuel Co.	Miller Nos. 1 and 2	1		
Madeira-Hill-Clark Coal Co.	New Chieftain & Randolph		2	
Pitcairn Coal Co.	Pitcairn	1	1	
Hutchinson Fuel & Supply Co.	Hutchinson Nos. 1 and 2		1	
Totals		6	29	
<i>Lewis County.</i>				
Jacksonville Coal & Coke Co	Sarah B. No. 3			1
Total				1
<i>Upshur County.</i>				
Red Rock Fuel Co.	Nos. 1 & 2		4	
Total			4	
<i>Barbour County.</i>				
Merriden Coal Mining Co	Meriden Nos. 1, 2 and 4		2	
Tygarts' River Coal Co	Arden		1	
Fairmont Coal Co.	Berryburg		2	
The Century Coal Co. of West Virginia	Century No. 1		4	
Miller Coal & Coke Co.	Sara		1	
Midland Coal & Coke Co	Midlaad		1	
Totals			11	
<i>Monongalia County.</i>				
Fairmont Coal Co.	Beechwood		1	
Elkins Coal & Coke Co	Richard		3	
Elkins Coal & Coke Co	Sabraton		5	
Connellsville Basin Coke Co.	Nos. 1, 2 and 3		3	
Totals			12	
<i>Preston County.</i>				
Austen Coal & Coke Co	Austen No. 1		2	
Austen Coal & Coke Co	Austen No. 2		1	
Merchants Coal Co	No. 2		3	
Elkins Coal & Coke Co	Bretz		4	
Elkins Coal & Coke Co	Kingwood No. 4		2	
Elkins Coal & Coke Co	Masontown or No. 6		2	
Totals			14	
<i>Taylor County.</i>				
Pittsvein Coal Co.	Flemington		2	
McGraw Coal Co.	New York		3	
Rosemont Coal Co.	Rosemont		1	
Johnson Bros. Coal Co	Cecil		1	
Totals			7	
<i>Grant County.</i>				
Davis Coal & Coke Co	Henry No. 22		4	
Total			4	
<i>Mineral County.</i>				
Davis Coal & Coke Co	Ott No. 20		1	
Davis Coal & Coke Co	Montgomery Run No. 19		1	
Davis Coal & Coke Co	Hartmansville No. 9		1	

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Mineral County.—Con't.</i>				
Abrams Creek Coal & Coke Co.....	Oakmont		1	
Gleason Coal & Coke Co.....	Gleason No. 2		2	
Totals		3	3	
<i>Randolph County.</i>				
Davis Colliery Co.....	Coalton No. 1.....		3	
Davis Colliery Co.....	Harding No. 3.....		2	
Totals			5	
<i>Tucker County.</i>				
Cumberland Coal Co	Douglas No. 1.....	1		
Cumberland Coal Co	Douglas Nos. 4 & 5	1		
Davis Coal & Coke Co	Thomas No. 23 & Pen Run		4	
Davis Coal & Coke Co	Thomas No. 25		3	
Davis Coal & Coke Co	Thomas No. 34		2	
Davis Coal & Coke Co	Coketon No. 25		1	
Davis Coal & Coke Co	Coketon No. 36		3	
Davis Coal & Coke Co	Coketon No. 37		3	
Totals		2	16	
<i>Mason County.</i>				
Consumers Coal & Mining Co.....	Camden.....		1	
Liverpool Salt & Coal Co.....	Jackson.....	1		
Hartford Coal & Mining Co.....	Hartford		1	
Totals		1	2	
<i>Putnam County.</i>				
Plymouth Coal & Mining Co.....	Plymouth		1	
Plymouth Coal & Mining Co.....	Manilla		1	
Plymouth Coal & Mining Co.....	California		1	
The Otto Marmet Coal & Mining Co.....	Big Otto Nos. 1, 2 & 3.....		5	
Black Betsey Coal & Mining Co	Nos. 1 & 2.....		3	
Totals			11	
<i>Clay County.</i>				
Elk River Coal & Lumber Co.....			1	
Total			1	
<i>Fayette County.</i>				
Sunday Creek Co	No. 112		3	
Sunday Creek Co	No. 114		2	
Sunday Creek Co	No. 115		3	
The Columbus Iron & Steel Co	No. 1.....		4	
Kanawha Gas Coal Co	Kanawha Gas		1	
Kanawha Gas Coal Co	Eagle		1	
W. R. Johnson & Co.....	Oakland		2	
Boomer Coal & Coke Co.....	No. 1.....		1	
Boomer Coal & Coke Co.....	No. 2 North		3	
Boomer Coal & Coke Co.....	No. 2 South.....		1	
Boomer Coal & Coke Co.....	No. 3.....		2	
Eureka Colliery Co.....	Eureka No. 13.....		1	
Eureka Colliery Co.....	Eureka No. 14.....		1	
W. R. Johnson Co	Eagle No. 1.....		1	
W. R. Johnson Co	No. 5 Splint	1		
W. R. Johnson Co	No. 6 Splint		1	
Mecca Coal & Coke Co	Mecca No. 2		1	
Mecca Coal & Coke Co	Mecca No. 5		1	
The Carver Bros. Co	Nos. 2 & 3.....		1	
The Carver Bros. Co	Diamond	1		
M. B. Coal Co.....	Elk Ridge No. 1.....		1	

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES.
—1909—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
Fayette County—Cont.				
The Mount Carbon Co., L't'd	Vulcan		1	1
Great Kanawha Colliery Co	Brewster		1	
Loup Creek Colliery Co	Ansted and Eagle	2	1	
Lynchburg Colliery Co	Lynchburg	1		
The Gauley Mountain Coal Co	Nova Scotia & Turkey Creek	4	4	
Nuttallburg Collieries Co	Nuttallburg & Keeneys Cr'k		2	
Keeneys' Creek Colliery Co	Smokeless		2	
Keeneys' Creek Colliery Co	Boone	1	1	
Rothwell Coal Co.	Dubree		1	
Blume Coal & Coke Co.	Blume		2	
Fire Creek Coal & Coke Co.	Fire Creek and Buffalo	1		
Beechwood Coal & Coke Co	No. 2	1		
Alaska Coal & Coke Co.	Alaska	1		
Ephraim Creek Coal & Coke Co	Buffalo		8	
Ridgeview Coal Co	Ridgeview	1		
Export Coal Co	Export	1		
Laurel Creek Coal Co	Laurel		1	
Glendale Colliery Co	Glendale	1		
Quinnimont Coal Co	Big Q		1	
Greenwood Coal Co.	Greenwood	2	2	
Hemlock Hollow Coal & Coke Co.	Hemlock		5	
New River & Pocahontas Cons. Coal Co.	Layland		12	
New River & Pocahontas Cons. Coal Co.	Minden No. 1	1		
New River & Pocahontas Cons. Coal Co.	Minden No. 2		4	
New River & Pocahontas Cons. Coal Co.	Minden No. 3		6	
New River & Pocahontas Cons. Coal Co.	Minden No. 4		7	
New River & Pocahontas Cons. Coal Co.	Minden No. 5		5	
The Low Moor Iron Co. of Virginia	Kaymoor No 1		3	
Elverton Coal & Coke Co.	Elverton		2	
South Side Co	South Side		1	
The Thurmond Coal Co	Thurmond No. 1		2	
The Thurmond Coal Co	Thurmond No. 2		1	
New River Collieries Co.	Brooklyn		2	
New River Collieries Co.	Red Ash		2	
New River Collieries Co.	Rush Run		6	
New River Collieries Co.	Sun No. 1		3	
New River Collieries Co.	Sun No. 2		3	
New River Collieries Co.	Sun No. 3		1	
The Dunglen Coal Co.	Nos. 1 & 2	1		
The Star Coal & Coke Co.	Star		2	
Nichol Colliery Co.	Nichol		4	
McKell Coal & Coke Co	Derryhale		2	
McKell Coal & Coke Co	Kilsyth		4	
Harvey Coal & Coke Co.	No. 1		1	
Prudence Coal Co	Prudence, Lyman & Jones	1		
Collins Colliery Co	Nos. 1 & 2		5	
White Oak Fuel Co	Wingrove		3	
White Oak Fuel Co	Scarbro		6	
White Oak Fuel Co	Whipple		3	
White Oak Fuel Co	Carlisle		2	
White Oak Fuel Co	Oakwood		2	
Stuart Colliery Co	Parral		1	
Stuart Colliery Co	Stuart		4	
Dunn Loop Coal & Coke Co	Dunn Loop No. 1		1	
Dunn Loop Coal & Coke Co	Dunn Loop Nos. 2 & 3		2	
Macdonald Colliery Co.	Macdonald		1	
Price Hill Fuel Co	Price Hill		2	
Turkey Knob Coal Co.	Turkey Knob		4	
Totals		21	173	1
Kanawha County.				
Queen Coal & Coke Co.	Turner		1	
Elk Coal & Coke Co	Turner		1	
Blue Creek Coal & Land Co.	No. 3		1	
Roderick Coal Co	Quick		1	

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
Kanawha County—Cont.				
The Campbells Creek Coal Co	No. 1			5
Quincy Coal Co., Inc.	No. 2			1
Sunday Creek Co.	No. 101			1
Sunday Creek Co.	No. 104			2
Sunday Creek Co.	No. 105			2
Sunday Creek Co.	No. 109			1
Kellys Creek Colliery Co.	No. 1			1
Kellys Creek Colliery Co.	Nos. 3 & 4			3
Hughes Creek Coal Co	Hughes Nos. 2 & 3			2
Cannelton Coal Co	Cannelton No. 2			2
The Ma. met Coal Co.	Monarch			2
The Marmet Coal Co.	Butler			3
Olcott Coal & Iron Co	No. 1			2
Olcott Coal & Iron Co	No. 2			2
Winifrede Coal Co.	North Pick & Machine			2
Winifrede Coal Co.	West			1
Winifrede Coal Co.	New Coalburg			2
Dry Branch Coal Co.	Gas			1
Dry Branch Coal Co.	Coalburg			1
Dry Branch Coal Co.	Belmont			1
Coalburg Colliery Co.	Ronda			1
Wyatt Coal Co.	Oakley			1
Wyatt Coal Co.	Berlin			1
Wyatt Coal Co.	South Horton			1
Lamont Mining Co.	No. 1			1
Lamont Mining Co.	No. 3			1
Holley & Stephenson Coal & Coke Co.	Stephenson No. 2			1
Wake Forest Mining Co.	Wake Forest			1
Carbon Coal Co.	North			1
Carbon Coal Co.	South			3
Carbon Coal Co.	South Splint			3
Republic Coal Co.	No. 1			2
Republic Coal Co.	No. 2			2
Republic Coal Co.	No. 3			4
West Virginia Colliery Co	No. 1			2
West Virginia Colliery Co	No. 2			2
West Virginia Colliery Co	No. 3			1
West Virginia Colliery Co	No. 4			1
Cabin Creek Consolidated Coal Co	Davis			1
Cabin Creek Consolidated Coal Co	Cherokee			1
Cabin Creek Consolidated Coal Co	Red Warrior			1
Cabin Creek Consolidated Coal Co	Buckeye			1
Cabin Creek Consolidated Coal Co	Empire			1
Cabin Creek Consolidated Coal Co	Keystone			2
Cabin Creek Consolidated Coal Co	Acme			1
Cabin Creek Consolidated Coal Co	Shamrock			2
Cabin Creek Consolidated Coal Co	Thistle			1
Cabin Creek Consolidated Coal Co	Raccoon			2
Cabin Creek Consolidated Coal Co	Raccoon Splint			1
Cabin Creek Consolidated Coal Co	Rose			1
Cabin Creek Consolidated Coal Co	Kayford			2
Cabin Creek Consolidated Coal Co	United Gas			2
Cabin Creek Consolidated Coal Co	Belleclare			1
Paint Creek Collieries Co	Knickerbocker	1		
Paint Creek Collieries Co	Seranton			2
Paint Creek Collieries Co	Paint Creek			2
Paint Creek Collieries Co	Wacomah			1
Paint Creek Collieries Co	Banner No. 1			1
Paint Creek Collieries Co	Greenbrier No. 2			1
The Coalburg-Kanawha Coal Co.	"A"			1
Equitable Coal Co.	Coalburg No. 8			2
Standard Splint & Gas Coal Co.	Standard			1
Imperial Colliery Co	No. 1			1
Imperial Colliery Co	No. 3			1
Chesapeake Mining Co.	Chesapeake No. 1	1		1
Chesapeake Mining Co.	Chesapeake Nos. 2 & 3	1		1

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
--1909--(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives		
		Steam.	Electric	Comp. Air.
<i>Kanawha County.—Cont.</i>				
Montgomery Coal Co.....	Hickory Nut & Upper Creek.....		1	
Morris Creek Colliery Co.....	Morris Creek.....		1	
Totals		3	107	
<i>Nicholas County.</i>				
Kentucky Coal & Lumber Co.....	Dixie.....		1	
Raven Collieries.....	Raven.....		1	
Totals			2	
<i>Raleigh County.</i>				
Big Coal Co.....	Dorothy.....		5	
New River Collieries Co.....	Lanark Nos. 3 & 4.....		1	
McKell Coal & Coke Co.....	Oswald.....		2	
McKell Coal & Coke Co.....	Sidney.....		1	
McKell Coal & Coke Co.....	Graham.....		1	
McKell Coal & Coke Co.....	Tamroy.....		2	
Wright Coal & Coke Co.....	No. 1.....		2	
Stonewall Coal & Coke Co.....	Terry.....		1	
Stonewall Coal & Coke Co.....	No. 3.....	1		
Piney Mining Co.....	Piney No. 1.....		2	
Piney Mining Co.....	Piney No. 2.....		1	
Piney Mining Co.....	Piney No. 3.....	1	1	
Raleigh Coal & Coke Co.....	Nos. 1, 2 & 4.....		2	
Raleigh Coal & Coke Co.....	No. 3.....		3	
Raleigh Coal & Coke Co.....	No. 6.....		4	
Blue Jay Lumber Co.....	No. 4.....	1		
Sullivan Coal & Coke Co.....	Sullivan.....		2	
Cranberry Fuel Co.....	Sprague.....		2	
Beckley Coal & Coke Co.....	Beckley.....		2	
Price Hill Fuel Co.....	Price Hill.....		3	
Slab Fork Coal Co.....	Slab Fork. Nos. 1, 2, 3 & 4.....		5	
Totals		3	42	
<i>Mercer County.</i>				
Mill Creek Coal & Coke Co.....	Coaldale.....		4	
Mill Creek Coal & Coke Co.....	East. West & Tug River.....	3		
Buckeye Coal & Coke Co.....	North & South.....	2		
Booth-Bowen Coal & Coke Co.....	Booth-Bowen.....	3		
Pocahontas Consolidated Collieries Co. Inc	Caswell, Hemlock & Elkhorn	4		
Louisville Coal & Coke Co.....	Louisville & Goodwill.....		2	
Crystal Coal & Coke Co.....	Crystal.....		1	
American Coal Co. of Alleghany Co.....	Crane Creek Nos. 1 & 2.....		2	
American Coal Co. of Alleghany Co.....	Pinnacle North & South.....		2	
American Coal Co. of Alleghany Co.....	Piedmont Nos. 1 & 2.....	1		
The Thomas Coal Co.....	Thomas.....		1	
The Weyanoke Coal & Coke Co.....	Weyanoke & Elihu.....		2	
Hiawatha Coal & Coke Co.....	Hiawatha.....	1		
Spring Coal Mining Co.....	Spring.....	1		
Wenonah Coal & Coke Co.....	Wenonah.....		1	
Totals		15	15	
<i>McDowell County.</i>				
Algoma Coal & Coke Co.....	Piney & Northfork.....		3	
Elk Ridge Coal & Coke Co.....	Elk Ridge.....	2		
Gilliam Coal & Coke Co.....	Gilliam.....		5	
Indian Ridge Coal.....	Indian Ridge.....		2	
Roanoke Coal & Coke Co.....	Roanoke.....		3	
Arlington Coal & Coke Co.....	Arlington.....		3	
Greenbrier Coal & Coke Co.....	Greenbrier.....		4	
McDowell Coal & Coke Co.....	McDowell.....	1	3	
Ashland Coal & Coke Co.....	Ashland & Monitor.....	3		
Pocahontas Consolidated Collieries Co.....	Cherokee.....	2		

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES
—1909—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
McDowell County.—Cont.				
Pocahontas Consolidated Collieries Co.....	Lick Branch.....		4	
Pocahontas Consolidated Collieries Co.....	Delta.....		4	
Pocahontas Consolidated Collieries Co.....	Shamokin.....		5	
Pocahontas Consolidated Collieries Co.....	Norfolk & Angle.....		6	
Pocahontas Consolidated Collieries Co.....	West.....		1	
Zenith Coal & Coke Co.....	Zenith Nos. 1 & 2.....	2	2	
Elkhorn Coal & Coke Co.....	Elkhorn.....			
Mohawk Coal & Coke Co.....	Mohawk.....	1		
New River & Pocahontas Cons. Coal Co.....	No. 1.....		5	
New River & Pocahontas Cons. Coal Co.....	No. 2.....		3	
New River & Pocahontas Cons. Coal Co.....	No. 3.....		3	
Virginia-Pocahontas Coal Co.....	Nos. 1 & 11.....		2	
Virginia-Pocahontas Coal Co.....	Nos. 2, East & West.....		2	
Virginia-Pocahontas Coal Co.....	Nos. 3 & 4.....		2	
Virginia-Pocahontas Coal Co.....	No. 5.....		1	
Premier-Pocahontas Collieries Co.....	Nos. 1, 2 & 3.....		2	
Big Sandy Coal Co.....	Big Sandy.....		2	
Big Sandy Coal Co.....	Marytown.....		2	
Twin Branch Mining Co.....	Twin Branch.....		1	
Mahe Coal & Coke Co.....	Mahe Nos. 1 & 2.....		1	
J. B. B. Collieries Co.....	J. B. B. No. 2.....		1	
J. B. B. Collieries Co.....	J. B. B. No. 3.....		1	
J. B. B. Collieries Co.....	J. B. B. No. 4.....		2	
J. B. B. Collieries Co.....	J. B. B. No. 5.....		2	
Superior-Pocahontas Coal Co.....	No. 1.....		2	
Superior-Pocahontas Coal Co.....	No. 2.....		1	
Superior-Pocahontas Coal Co.....	Helena & Davy Crockett.....		1	
Superior-Pocahontas Coal Co.....	No. 4.....		1	
Jed Coal & Coke Co.....	Jed.....		2	
United States Coal & Coke Co.....	No. 1.....		2	
United States Coal & Coke Co.....	No. 2.....		4	
United States Coal & Coke Co.....	No. 3.....		3	
United States Coal & Coke Co.....	No. 4.....		2	
United States Coal & Coke Co.....	No. 5.....		1	
United States Coal & Coke Co.....	No. 6.....		4	
United States Coal & Coke Co.....	No. 7.....		2	
United States Coal & Coke Co.....	No. 8.....		1	
United States Coal & Coke Co.....	No. 9.....		2	
United States Coal & Coke Co.....	No. 10.....		1	
United States Coal & Coke Co.....	No. 11.....		2	
United States Coal & Coke Co.....	No. 12.....		1	
Black Wolf Coal & Coke Co.....	No. 4.....		3	
Page Coal & Coke Co.....	Nos. 1, 2 & 3.....		4	
Welch Coal & Coke Co.....	Welch.....			1
Middle States Coal & Coke Co.....	No. 11.....		8	
Dixon-Pocahontas Fuel Co.....	North.....		4	
Dixon-Pocahontas Fuel Co.....	South.....		3	
The King Coal Co.....	King.....		1	
The Tidewater Coal & Coke Co.....	Tidewater.....		4	
Peerless Coal & Coke Co.....	Peerless.....	2		
The Empire Coal & Coke Co.....	Empire.....		2	
Shawnee Coal & Coke Co.....	Shawnee.....		2	
Eureka Coal & Coke Co.....	Eureka.....	2		
Pulaski Iron Co.....	Pulaski Nos. 1 & 2.....		7	
Keystone Coal & Coke Co.....	Keystone Nos. 1 & 2.....		3	
Powhatan Coal & Coke Co.....	Powhatan.....		2	
Upland Coal & Coke Co.....	No. 1.....		3	
Houston Coal & Coke Co.....	Nos. 1 & 2.....		3	
Crozer Coal & Coke Co.....	Nos. 1 & 2.....		2	
Turkey Gap Coal & Coke Co.....	Turkey Gap.....	3		
Totals.....		18	160	1
Logan County.				
Stone Branch Coal Co.....	Nos. 1, 2, 3, 4, 5, 6, 7 & 8.....		2	
E. R. Johnson Coal Mining Co.....	Johnson.....		1	

**NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES,
—1909—(Continued.)**

NAME OF COMPANY.	NAME OF MINE.	Locomotives.		
		Steam.	Electric.	Comp. Air.
<i>Logan County.—Con't.</i>				
The Monitor Coal & Coke Co.....	Monitor & Beechwood.....		2	
The Yuma Coal & Coke Co.....	Yuma.....		4	
Cora Coal & Coke Co.....	Cora.....		3	
United States Coal & Oil Co.....	Island Creek No. 1.....		3	
United States Coal & Oil Co.....	Island Creek No. 2.....		3	
United States Coal & Oil Co.....	Island Creek No. 3.....		4	
United States Coal & Oil Co.....	Island Creek No. 4.....		3	
United States Coal & Oil Co.....	Island Creek Nos. 5 & 6.....		3	
Totals.....			28	
<i>Mingo County.</i>				
Chattaroy Colliery Co.....	Chattaroy.....	1		
The Buffalo Collieries Co.....	Buffalo.....		2	
Lingohocken Coal Co.....	Nos. 5, 5½, 7 & 8.....	1		
Howard Colliery Co.....	Howard.....	1		
Williamson Coal & Coke Co.....	No. 3.....	2		
Red Jacket Consolidated Coal & Coke Co.....	Rutherford.....	1	2	
Red Jacket Consolidated Coal & Coke Co.....	Logan.....		1	
Red Jacket Consolidated Coal & Coke Co.....	Red Jacket.....		6	
Red Jacket Consolidated Coal & Coke Co.....	Lick Fork.....	1		
Thacker Coal & Coke Co.....	No. 2.....		1	
Thacker Coal & Coke Co.....	No. 3.....		2	
Thacker Fuel Co.....	No. 10.....		1	
Glen Alum Coal Co.....	Nos. 1 & 2.....		6	
War Eagle Coal Co.....	Mephisto.....	1		
Margaret Mining Co.....	Margaret.....			* 1
Totals.....		6	21	1

* Not in use.

TABLE GIVING THE NUMBER OF MINE OPENINGS; NUMBER OF COKE OVENS; ACRES OF COAL WORKED OUT; NUMBER OF MULES AND HORSES USED AT THE MINES; NUMBER OF MEN KILLED AND INJURED, AND KIND OF VENTILATION FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	Number of Mine Openings.	Total Number of Coke Ovens.	Acres of Coal Worked out From Commercial Mines.	Number of Men Killed.	Number of Men Injured Non-fatally.	Number of Horses and Mules Used at the Mines.	Number of Fans.	Number of Furnaces.	Number of Natural Ventilation.	Fire Baskets, Air Shafts, Stacks, &c.
Brooke.....	6	6	82.11	2	1	29	5	1		
Hancock.....	9		10.66		4	12		1		
Marion.....	27	1,038	398.07	20	53	355	14	1	3	
Marshall.....	7		35.35	1	1	27	7			
Ohio.....	7		26.50			24	6			
Harrison.....	62	200	335.48	13	68	389	47	1	3	2
Lewis.....	1		2.04			5		1		
Upshur.....	4	36	13.62	2	4	4		1		
Barbour.....	18	227	107.25	1	19	100	10	1		3
Monongalia.....	9	416	47.04		12	31				
Preston.....	20	983	141.28	4	28	97	14		1	
Taylor.....	16	30	53.67		4	61			1	
Grant.....	3		26.53		9	22	2			
Mineral.....	23		106.73	5	9	70	13	1		
Randolph.....	8	520	50.98	1	8	39	4	3	1	3
Tucker.....	13	773	132.29	3	38	122	9	1		1
Braxton.....	2		13.07		3	9	1			
Gilmer.....	1	1.81	1.81			2		1		
Mason.....	7		15.16	1	5	38	4	1		
Putnam.....	11		57.03	3	3	66	9		1	
Clay.....	4		6.35			8				
Fayette.....	146	2,881	1,290.22	55	221	1,307	107	18	7	
Kanawha.....	124	90	685.60	21	56	774	106	10	4	
Boone.....	7		.55				1		1	
Nicholas.....	4		9.24			11		2		
Greenbrier.....	1		6.73		2	4				1
Raleigh.....	43		329.66	18	86	322	31	4		
Mercer.....	30	1,846	334.11	13	84	388	22	4	1	
McDowell.....	113	10,155	1,756.71	181	275	1,117	97	7	2	
Wyoming.....	1									
Lincoln.....	3		7.02			10		2		
Logan.....	29		272.73	11	16	135	18	6		
Mingo.....	45		244.17	9	30	304	12	15	1	
Wayne.....	1		8.24			9		1		
Totals.....	798	19,211	6,608.00	364	1,032	5,901	553	106	27	11

GENERAL SUMMARY OF INSPECTIONS BY DISTRICTS JULY 1st, 1908
TO JUNE 30th, 1909.

DISTRICTS.	No. of Inspections.	No. of Visits.	Totals.
No. 1.....	142	30	172
No. 2.....	143	71	214
No. 3.....	96	18	114
No. 4.....	* 114	27	141
No. 5.....	* 89	23	112
No. 6.....	* 182	25	207
No. 7.....	* 119	73	192
No. 8.....	* 162	37	199
No. 9.....	* 152	75	227
No. 10.....	* 135	30	165
No. 11.....	* 192	37	229
No. 12.....	108	21	129
Totals.....	1,634	467	2,101

* Included in 4th District.			15 Inspections by Special Inspectors.		
..	..	5th	2	..	District No. 7.
..	..	6th	5	..	Special
..	..	6th	1	..	District No. 9.
..	..	7th	1	..	..
..	..	7th	2	..	..
..	..	7th	1	..	..
..	..	8th	48	..	Special Inspectors.
..	..	8th	14	..	District No. 5.
..	..	8th	2	..	..
..	..	8th	5	..	..
..	..	8th	2	..	..
..	..	8th	4	..	..
..	..	8th	15	..	..
..	..	8th	6	..	..
..	..	10th	5	..	Special
..	..	10th	28	..	District
..	..	10th	2	..	..
..	..	10th	5	..	..
..	..	10th	7	..	..
..	..	11th	21	..	..
..	..	11th	17	..	..
..	..	11th	18	..	..
..	..	11th	8	..	..
..	..	11th	3	..	..

*GENERAL SUMMARY OF INSPECTIONS BY COUNTIES JULY 1st, 1908
TO JUNE 30th, 1909.*

COUNTY.	No. of Inspections.	No. of Visits.	Totals.
Brooke.....	9	1	10
Hancock.....	2	2	4
Marion.....	111	22	133
Marshall.....	11	4	15
Ohio.....	9	1	10
Harrison.....	138	63	201
Lewis.....	1	1	2
Upshur.....	4	7	11
Barbour.....	26	7	33
Monongalia.....	12	4	16
Preston.....	34	6	40
Taylor.....	24	1	25
Grant.....	7	3	10
Mineral.....	42	19	61
Randolph.....	25	3	28
Tucker.....	40	2	42
Braxton.....	2	.....	2
Gilmer.....	1	.....	1
Mason.....	14	5	19
Putnam.....	16	7	23
Clay.....	5	3	8
Fayette.....	311	125	436
Kanawha.....	257	49	306
Boone.....	2	.....	2
Raleigh.....	88	34	122
Nicholas.....	7	10	17
Greenbrier.....	1	.....	1
Mercer.....	64	13	77
McDowell.....	263	54	317
Lincoln.....	4	1	5
Logan.....	48	7	55
Mingo.....	55	12	67
Wayne.....	1	1	2
Totals.....	1,634	467	2,101

NUMBER OF INSPECTIONS—DISTRICT No. 1.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Brooke County.</i>			
A. Gilchrist & Sons Co.....	Gilchrist	1	.....
La Belle Coal Co.....	Lewis No. 1.....	2	.....
Beech Bottom Coal Co.....	Beech Bottom.....	1	1
Lewis-Findley Coal Co.....	Locust Grove.....	2	.....
La Belle Iron Works.....	La Belle Shaft.....	1	.....
Rex Carbon Coal Co.....	Rex Carbon No. 1.....	2	.....
Totals.....		9	1
<i>Hancock County.</i>			
The Marquet Coal Co.....	No. 4.....	1	1
The Marquet Coal Co.....	No. 5.....	1	1
Totals.....		2	2
<i>Marion County.</i>			
Fairmont Coal Co.....	Murray	5	.....
Fairmont Coal Co.....	Montana	4	1
Fairmont Coal Co.....	Barnesville Shaft	4	1
Fairmont Coal Co.....	New England.....	4	2
Fairmont Coal Co.....	Gaston.....	4	3
Fairmont Coal Co.....	Monongah No. 2 or 5.....	4	.....
Fairmont Coal Co.....	Monongah No. 3.....	2	.....
Fairmont Coal Co.....	Monongah No. 6.....	7	1
Fairmont Coal Co.....	Monongah No. 8.....	6	1
Fairmont Coal Co.....	Shaver Nos. 1 & 2.....	7	.....
Fairmont Coal Co.....	Pennols	4	1
Fairmont Coal Co.....	Anderson	4	.....
Fairmont Coal Co.....	Highland	5	1
Fairmont Coal Co.....	Middleton	4	.....
Fairmont Coal Co.....	Chiefton	4	.....
Fairmont Coal Co.....	Hutchinson.....	4	.....
Georges' Creek Coal & Iron Co.....	Chatham No. 1.....	5	3
New Central Coal Co.....	Stafford.....	4	1
Federal Coal & Coke Co.....	Federal	7	3
The Virginia & Pittsburg Coal & Coke Co.....	Kingmont	4	.....
Parker Run Coal & Coke Co.....	Parker Run	4	1
Harry B. Coal Co.....	Harry Nos. 1 & 2.....	5	.....
Kilarm Coal & Coke Co.....	Kilarm No. 1.....	3	.....
Kilarm Coal & Coke Co.....	Kilarm No. 2.....	1	1
Pittsburg Steam Coal Co.....	Elizabeth	4	.....
Catawba Coal Co.....	Catawba	2	1
Dakota Coal & Coke Co.....	Dakota Shaft.....	.....	1
Totals.....		111	22
<i>Marshall County.</i>			
Hitchman Coal & Coke Co.....	Hitchman	3	.....
Boggs Run Mining & Manufacturing Co.....	Boggs Run.....	1	1
Wheeling Steel & Iron Co.....	Benwood	1	.....
Glendale Coal Co.....	Glendale.....	1	1
Mound Coal Co.....	Mound	3	.....
Panama Coal Mining Co.....	Panama .....	.....	1
Bituminous Coal Co. of America.....	Bituminous No. 1.....	2	1
Totals.....		11	4
<i>Ohio County.</i>			
Richland Coal Co.....	Richland.....	1	1
Elm Grove Coal Co.....	Elm Grove.....	1	.....
Whitaker-Glessner Co.....	Carter or Whitaker.....	2	.....
Reymann Brewing Co.....	Manchester.....	2	.....
La Belle Iron Works.....	La Belle Drift.....	1	.....
La Belle Iron Works.....	La Belle Shaft.....	2	.....
Totals.....		9	1

NUMBER OF INSPECTIONS—DISTRICT No. 2.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Harrison County.</i>			
Clarksburg Fuel Co.....	Fall Run.....	2	1
Clarksburg Fuel Co.....	Pinnickinnick.....	1	2
Clarksburg Fuel Co.....	O'Neil.....	2	1
Clarksburg Fuel Co.....	Dixie.....	2	.....
Clarksburg Fuel Co.....	Two Lick.....	2	.....
Clarksburg Fuel Co.....	Interstate.....	2	1
Clarksburg Fuel Co.....	Despard No. 1.....	4	2
Fairmont Coal Co.....	Enterprise.....	2	.....
Fairmont Coal Co.....	Viropa.....	2	1
Fairmont Coal Co.....	Riverdale.....	2	1
Fairmont Coal Co.....	Ehlen.....	2	1
Fairmont Coal Co.....	Ehlen No. 3.....	2	1
Fairmont Coal Co.....	Solon.....	2	.....
Fairmont Coal Co.....	Gypsy No. 5.....	3	2
Fairmont Coal Co.....	Gypsy No. 7.....	3	.....
Fairmont Coal Co.....	Meadow Brook No. 1.....	3	1
Fairmont Coal Co.....	Meadow Brook No. 2.....	3	.....
Fairmont Coal Co.....	Globe.....	2	.....
Fairmont Coal Co.....	Dunham.....	2	1
Fairmont Coal Co.....	Ocean.....	2	.....
Fairmont Coal Co.....	Columbia.....	2	1
Fairmont Coal Co.....	Robinson Run.....	3	1
Fairmont Coal Co.....	Reynoldsville.....	1	6
Fairmont Coal Co.....	Lynch.....	2	1
Fairmont Coal Co.....	West Fork.....	1	1
Pittsburg & Fairmont Fuel Co.....	Perry No. 1.....	2	1
Pittsburg & Fairmont Fuel Co.....	Perry No. 2.....	2	.....
Pittsburg & Fairmont Fuel Co.....	Coaling Station.....	2	.....
Pittsburg & Fairmont Fuel Co.....	Pooz.....	3	.....
Pittsburg & Fairmont Fuel Co.....	Lucas.....	3	.....
Virginia-Maryland Coal Corporation.....	Willard No. 1.....	4	2
Virginia-Maryland Coal Corporation.....	Willard No. 2.....	4	.....
Cook Coal & Coke Co.....	Girard No. 1.....	3	1
Cook Coal & Coke Co.....	No. 2 at Girard No. 1 ..	4	1
Corona Coal & Coke Co.....	Harold.....	3	.....
Central Fairmont Coal Co.....	Snake Hill.....	2	.....
Vincent Coal Co.....	Grasselli.....	3	.....
Meadow Brook Coal & Coke Co.....	Erie.....	3	.....
Harrison County Coal Co.....	Overholt.....	3	3
Hero Coal & Coke Co.....	Hero.....	3	3
Blue Ridge Coal Co.....	Thompson.....	3	.....
Rose-Bud Coal Co.....	Rose-Bud.....	2	.....
Monroe Colliery Co.....	Sylvester.....	2	1
National Coal Co.....	Dola.....	2	.....
Fayette Coal Co.....	Fayette.....	2	.....
Short Line Coal Co.....	Girard No. 2.....	2	.....
Fairmont & Baltimore Coal & Coke Co.....	Fairmore.....	2	1
Madeira-Hill-Clark Coal Co.....	Goff.....	2	.....
Madeira-Hill-Clark Coal Co.....	Waldo.....	2	5
Madeira-Hill-Clark Coal Co.....	Randolph.....	2	1
Madeira-Hill-Clark Coal Co.....	New Chieftain.....	1	3
Southwestern Coal Co.....	Miller No. 1.....	1	1
Southwestern Coal Co.....	Miller No. 2.....	.....	2
O'Gara Coal Mining Co.....	O'Gara.....	2	5
Pennsylvania-West Virginia Coal Co.....	Phoenix.....	1	1
Pitcairn Coal Co.....	Pitcairn.....	2	1
Marshall Coal Co.....	Marshall.....	1	.....
Cook & Hart Coal Co.....	Cork.....	2	.....
Hutchinson Fuel & Supply Co.....	Byron Nos. 1 & 2.....	1	2
Jane Lew Coal & Coke Co.....	Fulmer No. 1.....	1	.....
Lamberts' Run Coal Co.....	Clauston.....	3	3
Haywood Coal Mining Co.....	Monroe.....	4	.....
Marion Gas Coal Co.....	Bingamon.....	.....	1
Totals.....	.....	138	63

NUMBER OF INSPECTIONS—DISTRICT No. 2—Continued.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Lewis County.</i>			
Jacksonville Coal & Coke Co.....	Sarah B. No. 3.....	1	1
Totals.....	.....	1	1
<i>Upshur County.</i>			
Red Rock Fuel Co.....	Red Rock Nos. 1 & 2.....	4	2
Newcomer Coal Co.....	Newcomer.....		2
Buckhannon River Coal Co.....	Florence.....		2
Pennsylvania Consolidated Coal Co.....	Penco.....		1
Totals.....	.....	4	7

NUMBER OF INSPECTIONS—DISTRICT No. 3.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Barbour County.</i>			
Meriden Coal Mining Co.....	Meriden Nos. 1, 2, 3, 4 & 5	2	1
Tygart's River Coal Co.....	Arden	3	
Fairmont Coal Co.....	Berryburg Nos. 1 & 2	4	
Laurel Creek Coal Co.....	Laurel Creek	2	
The Century Coal Co. of West Virginia.....	Century No. 1	4	
Grafton Fuel Co.....	Lillian Nos. 1, 2 & 3	4	
Davis Coal & Coke Co.....	Weaver No. 3	2	
Miller Coal & Coke Co.....	Sara	1	2
Davis Colliery Co.....	Junior No. 4		3
Midland Coal & Coke Co.....	Midland	2	
Humphreys Colliery Co.....	Humphreys	2	
Luella Coal Co.....	Luella		1
Totals.....		26	7
<i>Monongalia County.</i>			
Opekiska Coal & Coke Co.....	Opekiska		1
Fairmont Coal Co.....	Beechwood	3	
Elkins Coal & Coke Co.....	Richard	2	1
Elkins Coal & Coke Co.....	Sabraton (No. 5)	1	
Connellsville Basin Coke Co.....	Derry Nos. 1, 2, 3 & 4	3	
Great Scott Coal & Coke Co.....	Great Scott No. 1	2	1
Grant Coal Co.....	Grant	1	
The Low Coal Co.....	Big Falls		1
Totals.....		12	4
<i>Preston County.</i>			
Austen Coal & Coke Co.....	Austen Nos. 1 & 2	4	1
Hamilton Coal & Coke Co.....	Newburg Shaft	4	1
Gorman Coal & Coke Co.....	No. 2	3	
Gorman Coal & Coke Co.....	West End No. 1	2	
Irona Coal Co.....	Irona Nos. 1 & 2	4	
Merchants Coal Co.....	Tunnelton No. 2	1	
Kingwood Coal Co.....	Howesville	2	
Hite Coal & Coke Co.....	Dixie	1	
Orr Coal & Coke Co.....	Vulcan	1	
Manufacturers Coal & Coke Co.....	Victoria Nos. 1 & 2	2	1
Elkins Coal & Coke Co.....	Bretz		1
Elkins Coal & Coke Co.....	Kingwood No. 4 (1)	2	1
Elkins Coal & Coke Co.....	Kingwood No. 4 (2)	2	1
Elkins Coal & Coke Co.....	Masontown No. 2 of No. 6	1	
Elkins Coal & Coke Co.....	Masontown No. 6	2	
Preston County Coke Co.....	Cascade	3	
Totals.....		34	6
<i>Taylor County.</i>			
Grafton Coal & Coke Co.....	Sandlick	2	
Pittsvein Coal Co.....	Flemington Nos. 2 & 4	3	1
T. B. Davis.....	T. B. Davis	2	
McGraw Coal Co.....	New York No. 1	2	
Rosemont Coal Co.....	Rosemont	3	
Maryland Coal Co.....	Wendel Nos. 1, 2, 3, 4 & 5	7	
Winona Coal & Coke Co.....	Winona No. 1	2	
Johnson Brothers Coal Co.....	Cecil	1	
Harrison Coal Co.....	Harrison	2	
Totals.....		24	1

NUMBER OF INSPECTIONS—DISTRICT No. 4.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	Nb. of Visits.
<i>Grant County.</i>			
Davis Coal & Coke Co.....	Henry No. 22.....	4	2
Buffalo Creek Cumberland Coal Co.....	Buffalo Creek.....	2	.....
Cottage Street Coal Co.....	Cottage Street.....	1	1
Totals.....		7	3
<i>Mineral County.</i>			
Davis Coal & Coke Co.....	Elk Garden No. 6.....	3	1
Davis Coal & Coke Co.....	Wabash No. 9.....	2	.....
Davis Coal & Coke Co.....	Tyson No. 10.....	3	1
Davis Coal & Coke Co.....	Kittanning No. 14.....	3	.....
Davis Coal & Coke Co.....	Kittanning No. 15.....	2	1
Davis Coal & Coke Co.....	Ott No. 20.....	3	2
Davis Coal & Coke Co.....	Montgomery Run No. 19.....	3	1
Davis Coal & Coke Co.....	No. 50.....	2	1
Davis Coal & Coke Co.....	No. 51.....	3	.....
Abrams Creek Coal & Coke Co.....	Oakmont No. 1.....	3	.....
Piedmont Brick & Coal Co.....	Karr or Piedmont No. 1.....	1	1
Piedmont & Potomac Coal Co.....	Virginia No. 2.....	2	1
Masteller Coal Co.....	Hampshire 4-ft.....	3	.....
Masteller Coal Co.....	New Creek or 6-ft.....		3
Smith Coal Co.....	Smith No. 1.....	3	.....
Gleason Coal & Coke Co.....	Gleason No. 1.....	1	1
Gleason Coal & Coke Co.....	Gleason No. 2.....	2	.....
Big Vein Coal Co. of West Virginia.....	Shaw or 4-ft.....	1	1
Big Vein Coal Co. of West Virginia.....	Big Vein.....		1
Denman Coal Co.....	Denman No. 3.....	1	1
Glade Run Coal & Coke Co.....	Sarah.....		2
Emory Run Coal Co.....	Emory Run.....		1
Western Maryland Coal Co.....	Blaine Nos. 2, 3 & 4.....	1	.....
Totals.....		42	19
<i>Randolph County.</i>			
Davis Coal & Coke Co.....	Weaver No. 1.....	5	.....
Davis Coal & Coke Co.....	Weaver No. 2.....	5	.....
Davis Coal & Coke Co.....	Leiter No. 5.....		2
Davis Colliery Co.....	Coalton No. 1.....	3	.....
Davis Colliery Co.....	Sivad No. 2.....	2	1
Davis Colliery Co.....	Harding No. 3.....	4	.....
Davis Colliery Co.....	West Harding No. 5.....	3	.....
W. H. Green, Lessee.....	Klondyke No. 1.....	3	.....
Totals.....		25	3
<i>Tucker County.</i>			
Cumberland Coal Co.....	No. 1.....	5	.....
Cumberland Coal Co.....	No. 5.....	6	.....
Davis Coal & Coke Co.....	Thomas No. 23.....	3	.....
Davis Coal & Coke Co.....	Pendleton Run.....	3	.....
Davis Coal & Coke Co.....	Thomas No. 25.....	4	.....
Davis Coal & Coke Co.....	Coketon No. 26.....	5	.....
Davis Coal & Coke Co.....	Thomas No. 34.....	2	.....
Davis Coal & Coke Co.....	Coketon No. 35.....	3	.....
Davis Coal & Coke Co.....	Coketon No. 36.....	4	.....
Davis Coal & Coke Co.....	Coketon No. 37.....	3	1
Beacon Coal & Coke Co.....	Beacon.....	1	.....
Gatzmer Coal & Coke Co.....	Gatzmer No. 1.....		2
Totals.....		40	3

NUMBER OF INSPECTIONS—DISTRICT No. 5.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Braxton County</i>			
Davis Colliery Co.....	Bower No. 10.....	1	
Davis Colliery Co.....	Copen No. 11.....	1	
Totals.....		2	
<i>Gilmer County.</i>			
Cosmopolitan Coal & Coke Co.....	Filmer No. 1.....	1	
Totals.....		1	
<i>Mason County.</i>			
Mason City Coal Mining Co.....	Linden.....	2	2
Consumers' Coal & Mining Co.....	Camden.....	3	
Beech Grove Coal Co.....	Beech Grove.....	3	
The Liverpool Salt & Coal Co.....	Jackson.....	2	2
Hartford Coal Mining Co.....	Hartford.....	3	
Dixie Coal Works.....	Dixie.....	1	1
Totals.....		14	5
<i>Putnam County.</i>			
Plymouth Coal & Mining Co.....	Manilla.....	2	
Plymouth Coal & Mining Co.....	California.....	2	
The Otto Marmet Coal & Mining Co.....	Big Otto No. 1.....	2	1
The Otto Marmet Coal & Mining Co.....	Big Otto No. 2.....	2	1
The Otto Marmet Coal & Mining Co.....	Big Otto No. 3.....	2	1
Black Betsey Coal & Mining Co.....	Black Betsey No. 1.....	2	1
Black Betsey Coal & Mining Co.....	Black Betsey No. 2.....	2	3
Oak Forest Coal & Mining Co.....	Oak Forest.....	2	
Totals.....		16	7
<i>Clay County.</i>			
Elk Manor Coal Co.....	Elk Manor.....	1	
Elk River Coal & Lumber Co.....	Dundon.....	1	
Totals.....		2	
<i>Fayette County.—(part).</i>			
Sunday Creek Co.....	No. 111.....	3	2
Sunday Creek Co.....	No. 112.....	2	1
Sunday Creek Co.....	No. 114.....	2	1
Sunday Creek Co.....	No. 115.....	2	
The Columbus Iron & Steel Co.....	Nos. 1 & 2.....	1	
Kanawha Gas Coal Co.....	Kanawha Gas.....	2	
Kanawha Gas Coal Co.....	Eagle.....	1	1
W. R. Johnson & Co.....	Oakland.....	2	
Boomer Coal & Coke Co.....	No. 1.....	1	1
Boomer Coal & Coke Co.....	No. 2 North.....	2	1
Boomer Coal & Coke Co.....	No. 2 South.....	2	1
Boomer Coal & Coke Co.....	No. 3.....	2	1
Totals.....		22	9

NUMBER OF INSPECTIONS—DISTRICT No. 5—Continued.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Kanawha County.—(part).</i>			
Blue Creek Coal & Land Co.....	Wills Hollow Nos. 1 & 2.....	2	.....
Blue Creek Coal & Land Co.....	Blakeley No. 3.....	1	.....
Roderick Coal Co.....	Roderick.....	1	.....
The Campbells Creek Coal Co.....	Nos. 1 & 2.....	2	.....
The Campbells Creek Coal Co.....	Nos. 3 & 4.....	5	.....
Quincy Coal Co.....	Quincy No. 1.....	2	.....
Quincy Coal Co.....	Quincy No. 2.....	1	.....
Sunday Creek Co.....	No. 101.....	1	.....
Sunday Creek Co.....	No. 104.....	1	.....
Sunday Creek Co.....	No. 105.....	1	.....
Sunday Creek Co.....	No. 109.....	1	.....
The New Cedar Grove Coal & Brick Co.....	Boyd.....	1	.....
Kellys Creek Colliery Co.....	No. 1.....	1	.....
Kellys Creek Colliery Co.....	No. 3.....	2	.....
Kellys Creek Colliery Co.....	No. 3 ¹	2	.....
Hughes Creek Coal Co.....	Hugheston No. 2.....	1	1
Hughes Creek Coal Co.....	Hugheston No. 3.....	2	1
Cannelton Coal Co.....	Cannelton No. 2.....	2	.....
The Marmet Coal Co.....	Monarch No. 1.....	1	.....
The Marmet Coal Co.....	Monarch No. 2.....	1	.....
Wallace Coal Co.....	Belle.....	1	.....
Totals.....	.....	32	2

NUMBER OF INSPECTIONS—DISTRICT No. 6.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Kanawha County.—(part).</i>			
The Marmet Coal Co.....	Butler	2	
The Marmet Coal Co.....	Lens Creek No. 2.....	3	1
The Marmet Coal Co.....	Marmet No. 5.....	1	1
Olcott Coal & Iron Co.....	Olcott No. 1.....	2	1
Olcott Coal & Iron Co.....	Olcott No. 2.....	1	2
Peerless Coal Co.....	Peerless	4	
Winifrede Coal Co.....	Gas	3	2
Winifrede Coal Co.....	North Pick	3	2
Winifrede Coal Co.....	North Machine.....	3	
Winifrede Coal Co.....	West	3	1
Dry Branch Coal Co.....	Gas No. 1.....	2	1
Dry Branch Coal Co.....	Coalburg No. 2.....	5	
Dry Branch Coal Co.....	Belmont No. 3.....	5	1
Coalburg Colliery Co.....	Ronda	3	
Wyatt Coal Co.....	Oakley	4	
Wyatt Coal Co.....	Berlin	4	
Wyatt Coal Co.....	Horton No. 1.....	1	
Wyatt Coal Co.....	Horton No. 2.....	3	
Persinger Coal Co.....	Wilton	2	
Lamont Mining Co.....	La Mont No. 1.....	3	
Lamont Mining Co.....	La Mont No. 2.....	1	
Lamont Mining Co.....	La Mont No. 3.....	3	1
The Stephenson & Holley Coal & Coke Co.....	Stephenson No. 2.....	4	1
The Stephenson & Holley Coal & Coke Co.....	No. 5.....	2	
Wake Forest Mining Co.....	Wake Forest.....	4	
Carbon Coal Co.....	North	3	
Carbon Coal Co.....	South	3	1
Carbon Coal Co.....	No. 5 or Splint.....	4	1
Republic Coal Co.....	No. 1.....	3	1
Republic Coal Co.....	No. 2.....	3	
Republic Coal Co.....	No. 3.....	2	
West Virginia Colliery Co.....	No. 1.....	5	
West Virginia Colliery Co.....	No. 2.....	2	
West Virginia Colliery Co.....	No. 3.....	2	
West Virginia Colliery Co.....	No. 4.....	3	
Cabin Creek Consolidated Coal Co.....	Davis	4	
Cabin Creek Consolidated Coal Co.....	Cherokee 7.....	3	
Cabin Creek Consolidated Coal Co.....	Caledonia.....	3	
Cabin Creek Consolidated Coal Co.....	Red Warrior.....	3	1
Cabin Creek Consolidated Coal Co.....	Buckeye	5	
Cabin Creek Consolidated Coal Co.....	Empire	3	
Cabin Creek Consolidated Coal Co.....	Black Tulip.....	3	
Cabin Creek Consolidated Coal Co.....	Keystone	3	
Cabin Creek Consolidated Coal Co.....	Acme	3	
Cabin Creek Consolidated Coal Co.....	Shamrock	3	1
Cabin Creek Consolidated Coal Co.....	Thistle	3	
Cabin Creek Consolidated Coal Co.....	Raccoon Gas.....	2	
Cabin Creek Consolidated Coal Co.....	Raccoon Splint.....	4	
Cabin Creek Consolidated Coal Co.....	Rose	3	
Cabin Creek Consolidated Coal Co.....	Kayford Nos. 1 and 2.....	6	2
Cabin Creek Consolidated Coal Co.....	Holly	4	
Cabin Creek Consolidated Coal Co.....	Quarrier	3	
Cabin Creek Consolidated Coal Co.....	United Gas.....	3	1
Cabin Creek Consolidated Coal Co.....	United Splint.....	2	1
Cabin Creek Consolidated Coal Co.....	Belleclare	3	
Cabin Creek Consolidated Coal Co.....	Ruby	4	1
Paint Creek Collieries Co.....	Reynolds	3	
Paint Creek Collieries Co.....	Knickerbocker.....	3	1
Chelyan Fuel Co.....	Chelyan	1	
Totals.....		178	25
<i>Boone County.</i>			
The Spruce River Coal Co.....	Ramage Nos. 1 and 2.....	1	
The Coal River Co.....	No. 1.....	1	
Total.....		2	
<i>Raleigh County.</i>			
Big Coal Co.....	Dorothy	2	
Total.....		2	

NUMBER OF INSPECTIONS—DISTRICT No. 7.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Clay County.</i>			
Carter Coal Co.....	Carter.....	3	1
Kentucky Coal & Lumber Co.....	Scott.....		2
Totals.....		3	3
<i>Fayette County—(part).</i>			
Economy Fuel Co.....	Mud Sock.....	1	
Paint Creek Collieries Co.....	Hickory Camp.....	1	2
Eureka Colliery Co.....	Eureka No. 13.....	2	1
Eureka Colliery Co.....	Eureka No. 14.....	2	3
W. R. Johnson.....	Eagle No. 1.....	1	2
W. R. Johnson.....	Splint Nos. 5 & 6.....	4	
Mecca Coal & Coke Co.....	Mecca No. 2.....	2	2
Mecca Coal & Coke Co.....	Mecca No. 5, Old.....	1	2
Mecca Coal & Coke Co.....	Mecca No. 5, New.....	1	3
Carver Brothers Co.....	No. 2.....	2	
Carver Brothers Co.....	No. 3.....	1	
Carver Brothers Co.....	No. 5 Splint.....	1	
Carver Brothers Co.....	Diamond No. 4.....	2	
Carver Brothers Co.....	Diamond (5 drifts).....	2	
St. Clair Colliery Co.....	Eagle.....	1	1
M. B. Coal & Coke Co.....	Kimberly.....		1
M. B. Coal & Coke Co.....	Columbia No. 2.....		1
M. B. Coal & Coke Co.....	Columbia No. 5.....	2	2
M. B. Coal & Coke Co.....	Elk Ridge No. 1.....	2	1
M. B. Coal & Coke Co.....	Elk Ridge No. 2.....	2	
The Mt. Carbon Co., L'd.....	Vulcan (and South).....	2	
Great Kanawha Colliery Co.....	Brewster.....	1	6
Great Kanawha Colliery Co.....	Edwards.....	2	3
Great Kanawha Colliery Co.....	Digby.....	1	5
Loup Creek Colliery Co.....	Ansted Nos. 3, 4, 5, 6, 7, 8.....	4	1
Loup Creek Colliery Co.....	Eagle.....	3	1
Herbert Collieries.....	Herberton.....	5	
Fort Defiance Coal & Coke Co.....	Fort Defiance.....	3	1
Lynchburg Colliery Co.....	Lynchburg.....	3	
Gamoca Coal Co.....	No. 2 Gas.....	1	
Gamoca Coal Co.....	No. 2 Splint.....	2	
Deitz Colliery Co.....	Deitz No. 2 Gas.....	2	
Deitz Colliery Co.....	Deitz No. 5 Splint.....	2	
Totals.....		61	38
<i>Kanawha County—(part).</i>			
Paint Creek Collieries Co.....	Scranton.....	2	
Paint Creek Collieries Co.....	Paint Creek.....	2	2
Paint Creek Collieries Co.....	Wacomah.....	3	
Paint Creek Collieries Co.....	Wacomah No. 7.....	1	
Paint Creek Collieries Co.....	Banner No. 1.....	1	2
Paint Creek Collieries Co.....	Banner No. 2.....	1	2
Paint Creek Collieries Co.....	Detroit.....	2	1
Paint Creek Collieries Co.....	Morton No. 1.....		1
Paint Creek Collieries Co.....	Grose No. 1.....	2	
Paint Creek Collieries Co.....	Grose No. 2.....	3	2
Paint Creek Collieries Co.....	Greenbrier No. 2.....	1	
Paint Creek Collieries Co.....	Greenbrier No. 3.....	1	
Coalburg-Kanawha Coal Co.....	Klondike.....	1	
Coalburg-Kanawha Coal Co.....	No. 4 (Coalburg).....	2	
Southwestern Splint Fuel Co.....	Black Cat (Coalburg).....	3	
Winifrede Coal Co.....	New Coalburg.....	2	1
Equitable Coal Co.....	No. 8 Coalburg.....	1	
Standard Splint & Gas Coal Co.....	Standard.....	2	1
Imperial Colliery Co.....	Imperial No. 1.....	1	2
Imperial Colliery Co.....	Imperial No. 2.....		2
Imperial Colliery Co.....	Imperial No. 3.....	2	1
Chesapeake Mining Co.....	Chesapeake No. 1.....	3	
Chesapeake Mining Co.....	Chesapeake No. 2.....	4	2
Chesapeake Mining Co.....	Chesapeake No. 3.....	1	
Montgomery Coal Co.....	Hickory Nut.....		2
Montgomery Coal Co.....	Possum Hollow.....	2	
Montgomery Coal Co.....	Line Tree.....	1	
Montgomery Coal Co.....	Upper Creek.....	2	
Morris Creek Coal Co.....	Morris Creek.....	1	1
Totals.....		47	22

NUMBER OF INSPECTIONS—DISTRICT No. 7—Continued.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Nicholas County.</i>			
The Columbus Coal Co	Vaughan No. 1.....		1
The Columbus Coal Co	Vaughan No. 2.....		1
Bell Creek Coal Co.....	Bell Creek.....	1	2
Kentucky Coal & Lumber Co	Mt. Carmel.....	1	1
Kentucky Coal & Lumber Co	Cambria.....		2
Kentucky Coal & Lumber Co	National.....	1	1
Arminius Coal Co	Arminius.....	1	1
Raven Collieries	Raven	1	1
Saxman Coal Co.....	Saxman	1	
Pardee & Curtin Lumber Co	Panther Creek.....	1	
Totals.....		7	10
<i>Greenbrier County.</i>			
Elk Lick Coal Co.....	Lost Flat.....	1	
Total.....		1	

NUMBER OF INSPECTIONS—DISTRICT No. 8.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Fayette County—(part).</i>			
Mill Creek Colliery Co.....	Mill Creek.....	6	4
The Gauley Mountain Coal Co.....	Nova Scotia.....	3	
The Gauley Mountain Coal Co.....	Turkey Creek.....	3	
Gaymont Colliery Co.....	Gaymont.....	3	
Sunbeury Coal & Coke Co.....	Sunnyside.....	3	2
Beury-New River Coal Co.....	Elmo.....	3	
Michigan Coal Co.....	Michigan.....	3	
Manufacturers & Consumers Coal Co.....	Newlyn.....	3	
The Fayette Coal & Coke Co.....	Fayette.....	4	
Brown Coal Co.....	Brown.....	2	
Nuttallburg Coal & Coke Co.....	Nuttallburg.....	3	1
Holliday Coal Co.....	Keeneys Creek.....	3	
Keeneys Creek Colliery Co.....	Smokeless.....	2	1
Keeneys Creek Colliery Co.....	No. 2.....	3	
Ballinger Coal Co.....	Ballinger No. 1.....	3	
Ballinger Coal Co.....	Ballinger No. 2.....	2	
Rothwell Coal Co.....	Dubree.....	2	
Blume Coal & Coke Co.....	Blume.....	3	
Lookout Coal & Coke Co.....	Lookout.....	3	
Moseley & Walker.....	No. 1.....	1	
Moseley & Walker.....	No. 2.....	1	
Moseley & Walker.....	No. 3.....	2	
Fire Creek Collieries Co.....	Kohinoor.....		2
Fire Creek Coal & Coke Co.....	Fire Creek.....	2	
Fire Creek Coal & Coke Co.....	Buffalo.....	1	
Beury Brothers Coal & Coke Co.....	Echo.....	3	
Beury Brothers Coal & Coke Co.....	Klondyke.....	2	
Big Bend Coal Co.....	Big Bend.....	2	
Stone Cliff Coal & Coke Co.....	Stone Cliff.....	1	1
Beechwood Coal & Coke Co.....	No. 1.....	1	
Beechwood Coal & Coke Co.....	No. 2.....	1	
Alaska Coal & Coke Co.....	Alaska.....		1
Ephraim Creek Coal & Coke Co.....	Ephraim C'k & Buffalo.....	1	
Ridgeview Coal Co.....	Ridgeview.....	3	1
Laurel Creek Coal Co.....	Laurel.....	2	1
Glendale Colliery Co.....	Glendale.....	1	
Quinnimont Coal Co.....	Big Q.....	3	2
Quinnimont Coal Co.....	Lick Branch.....	2	2
Greenwood Coal Co.....	Greenwood.....	1	
Hemlock Hollow Coal & Coke Co.....	Hemlock.....	2	
New River & Pocahontas Cons. Coal Co.....	Layland No. 1.....	1	
New River & Pocahontas Cons. Coal Co.....	Layland No. 2.....	2	
New River & Pocahontas Cons. Coal Co.....	Layland No. 3.....	2	
New River & Pocahontas Cons. Coal Co.....	Minden No. 1.....	2	2
New River & Pocahontas Cons. Coal Co.....	Minden No. 2.....	4	1
New River & Pocahontas Cons. Coal Co.....	Minden No. 3.....	2	1
New River & Pocahontas Cons. Coal Co.....	Minden No. 4.....	4	1
New River & Pocahontas Cons. Coal Co.....	Minden No. 5.....	4	2
New River Valley Coal Co.....	Bachman.....	4	
Marrs Branch Coal Co.....	Whitney.....	3	
The Low Moor Iron Co. of Virginia.....	Kay Moor No. 1.....	4	
The Low Moor Iron Co. of Virginia.....	Kay Moor No. 2.....	3	1
Elverton Coal & Coke Co.....	Elverton.....	2	2
South Side Co.....	South Side.....	1	1
The Thurmond Coal Co.....	Concho No. 1.....	4	
The Thurmond Coal Co.....	Erskine No. 2.....	3	1
The New River Collieries Co.....	Brooklyn.....	4	3
The New River Collieries Co.....	Red Ash.....	11	1
The New River Collieries Co.....	Rush Run.....	12	3
Totals.....		162	37

NUMBER OF INSPECTIONS—DISTRICT No. 9.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Fayette County—(part).</i>			
The New River Collieries Co.....	Sun Nos. 1, 2 & 3.....	13	.....
The Dungen Coal Co.....	Dungen No. 1.....	.....	2
The Dungen Coal Co.....	Dungen No. 2.....	.....	1
Newlyn Coal Co.....	Newlyn.....	1	1
Meadow Fork Coal Co.....	Meadow Fork.....	.....	2
The Star Coal & Coke Co.....	Star.....	4	1
Laura Mining Co.....	Laura.....	2	1
Nichol Colliery Co.....	Nichol.....	4	4
McKell Coal & Coke Co.....	Killsyth No. 7.....	1	1
Harvey Coal & Coke Co.....	Harvey No. 1.....	1	1
Harvey Coal & Coke Co.....	Harvey No. 2.....	1	.....
Prudence Coal Co.....	Layman.....	.....	1
Collins Colliery Co.....	Collins No. 1.....	1	2
Collins Colliery Co.....	Collins Nos. 2 & 3.....	2	.....
White Oak Fuel Co.....	Wingrove.....	3	1
White Oak Fuel Co.....	Scarbrow.....	3	.....
White Oak Fuel Co.....	Whipple.....	3	3
White Oak Fuel Co.....	Carlisle.....	2	1
White Oak Fuel Co.....	Oakwood.....	3	1
Stuart Colliery Co.....	Parral.....	8	2
Stuart Colliery Co.....	Beech Creek.....	1	1
Stuart Colliery Co.....	Stuart.....	7	7
Dunn Loop Coal & Coke Co.....	Dunn Loop No. 1.....	1	1
Dunn Loop Coal & Coke Co.....	Dunn Loop No. 2.....	1	3
Dunn Loop Coal & Coke Co.....	Dunn Loop No. 3.....	1	1
Macdonald Colliery Co.....	Macdonald.....	1	.....
Sugar Creek Coal & Coke Co.....	Sugar Creek.....	1	2
Price Hill Fuel Co.....	Sherwood.....	1	.....
Turkey Knob Coal Co.....	Turkey Knob.....	.....	1
Totals.....	.....	66	41
<i>Raleigh County—(part).</i>			
New River Collieries Co.....	Royal.....	2	.....
New River Collieries Co.....	Lanark No. 3.....	1	.....
New River Collieries Co.....	Lanark No. 4.....	1	.....
New River Collieries Co.....	Eccles No. 1.....	4	4
New River Collieries Co.....	Eccles No. 2.....	2	1
McKell Coal & Coke Co.....	Oswald.....	1	1
McKell Coal & Coke Co.....	Sidney.....	1	.....
McKell Coal & Coke Co.....	Graham.....	2	1
McKell Coal & Coke Co.....	Tamroy.....	2	.....
Wright Coal & Coke Co.....	Wright No. 1.....	.....	2
Wright Coal & Coke Co.....	No. 2.....	.....	1
Wright Coal & Coke Co.....	No. 3.....	.....	1
Stonewall Coal & Coke Co.....	Terry No. 2.....	2	.....
Stonewall Coal & Coke Co.....	Stonewall No. 3.....	1	1
Stonewall Coal & Coke Co.....	Stonewall No. 4.....	1	.....
Piney Mining Co.....	Stanaford, or Piney No. 2.....	8	2
Piney Mining Co.....	Piney No. 3.....	5	2
Piney Mining Co.....	Piney No. 4.....	5	1
Piney Mining Co.....	Piney No. 6.....	3	2
Raleigh Coal & Coke Co.....	Raleigh No. 3.....	4	.....
Raleigh Coal & Coke Co.....	Raleigh No. 1.....	1	.....
Raleigh Coal & Coke Co.....	Raleigh No. 2.....	2	.....
Raleigh Coal & Coke Co.....	Raleigh No. 4.....	3	1
Raleigh Coal & Coke Co.....	Raleigh No. 5.....	3	.....
Raleigh Coal & Coke Co.....	Raleigh No. 6.....	2	1
Blue Jay Lumber Co.....	No. 4.....	3	1
Sullivan Coal & Coke Co.....	Sullivan 1, 2, 3 & 4.....	1	1
Cranberry Fuel Co.....	Sprague.....	3	.....
Cranberry Fuel Co.....	Skelton.....	1	1
Cranberry Fuel Co.....	Cranberry.....	3	3
Cranberry Fuel Co.....	Prosperity.....	3	2
Mabscott Coal & Coke Co.....	Mabscott.....	3	.....
Beckley Coal & Coke Co.....	Beckley.....	3	4
Price Hill Fuel Co.....	Price Hill.....	1	.....
Slab Fork Coal Co.....	Slab Fork No. 1.....	2	.....
Slab Fork Coal Co.....	Slab Fork No. 2.....	2	.....
E. E. White Coal Co.....	Glen White Nos. 1 & 2.....	5	.....
Totals.....	.....	86	34

NUMBER OF INSPECTIONS—DISTRICT No. 10.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Mercer County.</i>			
Coaldale Coal & Coke Co	Coaldale	3	1
Mill Creek Coal & Coke Co	Mill Creek East	3	.....
Mill Creek Coal & Coke Co	Mill Creek West	6	.....
Mill Creek Coal & Coke Co	Tug River	4	.....
Buckeye Coal & Coke Co	Buckeye N. & S.	4	1
Booth-Bowen Coal & Coke Co	Booth - Bowen	3	3
Pocahontas Consolidated Collieries Co	Caswell Hemlock	3	.....
Pocahontas Consolidated Collieries Co	Caswell Elkhorn	3	.....
Louisville Coal & Coke Co	Louisville No. 2	3	1
Louisville Coal & Coke Co	Louisville No. 3	3	.....
Cephus Coal Co	Cephus	1	1
Crystal Coal & Coke Co	Crystal Nos. 2 & 4	2	2
American Coal Co. of Alleghany Co	Crane Creek No. 1	2	.....
American Coal Co. of Alleghany Co	Crane Creek No. 2	2	.....
American Coal Co. of Alleghany Co	Pinnacle N. & S.	4	.....
Thomas Coal Co	Thomas	2	.....
Pawama Coal & Coke Co	Pawama	2	.....
The Weyanoke Coal & Coke Co	Weyanoke No. 1	3	1
The Weyanoke Coal & Coke Co	Elihu No. 2	3	1
The Smokeless Coal & Coke Co	Smokeless	1	.....
Hiawatha Coal & Coke Co	Hiawatha	2	1
Spring Coal Mining Co	Spring	3	.....
Wenonah Coal & Coke Co	Wenonah Nos. 1 & 2	2	1
Totals		64	13
<i>McDowell County—(part.</i>			
Algoma Coal & Coke Co	Algoma or Northfork	4	1
Algoma Coal & Coke Co	Piney	1	.....
Elk Ridge Coal & Coke Co	Elk Ridge Nos. 1 & 2	6	1
Gilliam Coal & Coke Co	Gilliam	3	.....
Indian Ridge Coal & Coke Co	Indian Ridge	3	.....
Roanoke Coal & Coke Co	Roanoke	4	.....
Arlington Coal & Coke Co	Arlington	4	.....
Greenbrier Coal & Coke Co	Greenbrier	3	.....
McDowell Coal & Coke Co	McDowell	2	.....
Ashland Coal & Coke Co	Ashland	2	1
Ashland Coal & Coke Co	Monitor Nos. 1 & 2	3	.....
Pocahontas Consolidated Collieries Co	Cherokee	2	.....
Pocahontas Consolidated Collieries Co	Lick Branch	12	7
Pocahontas Consolidated Collieries Co	Delta	3	.....
Pocahontas Consolidated Collieries Co	Shamokin	6	.....
Pocahontas Consolidated Collieries Co	Norfolk Nos. 1 & 2	3	2
Pocahontas Consolidated Collieries Co	Angle	2	1
Zenith Coal & Coke Co	Nos. 1 & 2	4	4
Elkhorn Coal & Coke Co	Elkhorn	4	.....
Totals		71	17

NUMBER OF INSPECTIONS—DISTRICT No. 11.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>McDowell County—(part).</i>			
Mohawk Coal & Coke Co.	Mohawk	1	
New River & Pocahontas Cons. Coal Co.	No. 1	3	
New River & Pocahontas Cons. Coal Co.	No. 2	3	
New River & Pocahontas Cons. Coal Co.	No. 3	3	
Hall Mining Co.	Yukon Nos. 1 & 2	2	
Virginia-Pocahontas Coal Co.	Nos. 1 & 1½	3	
Virginia-Pocahontas Coal Co.	Nos. 2 East & West	3	
Virginia-Pocahontas Coal Co.	No. 3	2	
Virginia-Pocahontas Coal Co.	No. 4	2	
Virginia-Pocahontas Coal Co.	No. 5	2	
Vaughan Coal & Coke Co.	Vaughan No. 1	1	
Premier-Pocahontas Collieries Co.	Nos. 1, 2 & 3	5	
Big Sandy Coal & Coke Co.	Big Sandy	1	1
Big Sandy Coal & Coke Co.	Marytown	1	
Twin Branch Mining Co.	Twin Branch	1	
Maier Coal & Coke Co.	Maier No. 1	1	
J. B. B. Collieries Co.	J. B. B. No. 1	4	
J. B. B. Collieries Co.	J. B. B. No. 2	3	
J. B. B. Collieries Co.	J. B. B. No. 3	2	
Superior-Pocahontas Coal Co.	Superior Nos. 1 & 2	2	
Superior-Pocahontas Coal Co.	Davy Crockett	1	
Superior-Pocahontas Coal Co.	Helena Nos. 3, 4 & 5	1	
The Pando Coal Co.	Pando No. 1	1	
The Pando Coal Co.	Pando No. 2	1	
Atlas-Pocahontas Coal Co.	Antler No. 3	1	
Atlas-Pocahontas Coal Co.	Antler No. 4	1	
Oregon Coal Co.	Imo Nos. 1 & 2	2	1
Oregon Coal Co.	McClaren No. 2	1	1
Slick Rock Coal Co.	Slick Rock	2	
Jed Coal & Coke Co.	Jed	6	
United States Coal & Coke Co.	No. 1	3	
United States Coal & Coke Co.	No. 2	2	
United States Coal & Coke Co.	No. 3	1	
United States Coal & Coke Co.	No. 4	2	
United States Coal & Coke Co.	No. 5	2	
United States Coal & Coke Co.	No. 6	2	
United States Coal & Coke Co.	No. 7	2	
United States Coal & Coke Co.	No. 8 (2)	1	
United States Coal & Coke Co.	No. 9 (2)	2	
United States Coal & Coke Co.	No. 10	2	
United States Coal & Coke Co.	No. 11	3	
United States Coal & Coke Co.	No. 12	1	
Black Wolf Coal & Coke Co.	Black Wolf Nos. 1 & 2	3	
Page Coal & Coke Co.	Page No. 1	4	
Page Coal & Coke Co.	Page No. 2	3	
Page Coal & Coke Co.	Page No. 3	5	
Welch Coal & Coke Co.	Welch	1	
Hemphill Colliery Co.	Hemphill No. 2	2	
Middle States Coal & Coke Co.	Middle States	5	2
Dixon-Pocahontas Fuel Co.	North Side No. 1	2	2
Dixon-Pocahontas Fuel Co.	South Side No. 2	3	1
Cirrus Coal & Coke Co.	Cirrus No. 1	2	1
Virginia Fuel Co.	Virginia	2	
The King Coal Co.	King	7	1
The Tidewater Coal & Coke Co.	Tidewater	5	4
Bottom Creek Coal & Coke Co.	Bottom Creek	4	4
Peerless Coal & Coke Co.	Peerless	6	4
The Empire Coal & Coke Co.	Empire	2	
Shawnee Coal & Coke Co.	Shawnee	4	1
Eureka Coal & Coke Co.	Eureka	6	
Pulaski Iron Co.	Pulaski No. 1	3	
Pulaski Iron Co.	Pulaski No. 2	4	
Keystone Coal & Coke Co.	Keystone No. 1	4	1
Keystone Coal & Coke Co.	Keystone No. 2	4	1
Lynchburg Coal & Coke Co.	Lynchburg	5	
Powhatan Coal & Coke Co.	Powhatan	6	
Upland Coal & Coke Co.	No. 1	3	1
Houston Coal & Coke Co.	No. 1	3	2
Houston Coal & Coke Co.	No. 2	3	2
Crozer Coal & Coke Co.	No. 1	3	2
Crozer Coal & Coke Co.	No. 2	3	2
Turkey Gap Coal & Coke Co.	Turkey Gap	5	3
Dry Fork Colliery Co.	Williams	1	
Flat Top Coal Mining Co.	Thomas	1	
Henrietta Coal Co.	Henrietta	1	
Hurricane Branch Coal Co.	Huffer	1	
Totals		192	37

NUMBER OF INSPECTIONS—DISTRICT No. 12.

NAME OF COMPANY.	Name of Mine.	Number of Inspections.	No. of Visits.
<i>Lincoln County.</i>			
Branchland Coal Co.....	Branchland.....	2	1
Southern Fuel Co.....	Southern Fuel.....	1	1
Kenova Coal Mining Co.....	Coaling Station.....	1	1
Kenova Coal Mining Co.....	Kenova No. 1.....	1	1
Totals.....		4	1
<i>Logan County.</i>			
Prudential Coal & Mining Co.....	Prudential.....	1	1
Stone Branch Coal Co.....	Stone Branch Nos. 1 & 2.....	2	1
Big Creek Coal Co.....	Big Creek.....	3	1
E. R. Johnson Coal Co.....	E. R. Johnson.....	1	1
Draper Coal & Coke Co.....	Draper.....	3	1
H. T. Wilson Coal Co.....	Wilson.....	2	1
Fort Branch Coal Co.....	Fort Branch.....	2	1
Price Coal Co.....	Price.....	3	1
Rex Coal & Coke Co.....	Rex.....	3	1
The Logon Coal Co.....	Logan No. 1.....	2	1
Ethel Coal Co.....	Ethel.....	3	1
The Monitor Coal & Coke Co.....	Monitor.....	2	1
The Monitor Coal & Coke Co.....	Beechwood.....	1	1
The Yuma Coal & Coke Co.....	Yuma.....	2	1
The Gay Coal & Coke Co.....	Gay.....	3	1
Cora Coal & Coke Co.....	Cora.....	2	1
United States Coal & Oil Co.....	Island Creek No. 1.....	2	1
United States Coal & Oil Co.....	Island Creek No. 2.....	2	1
United States Coal & Oil Co.....	Island Creek No. 3.....	2	1
United States Coal & Oil Co.....	Island Creek No. 4.....	2	1
United States Coal & Oil Co.....	Island Creek No. 5.....	2	1
United States Coal & Oil Co.....	Island Creek No. 6.....	3	1
Totals.....		48	7
<i>Mingo County.</i>			
Pearl Coal Mining Co.....	Haggerty.....	2	1
Naugatuck Coal Co.....	Naugatuck.....	1	1
Warfield Coal Co.....	Warfield.....	1	1
Lemoin Coal Co.....	Lemoin.....	1	1
Chattaroy Colliery Co.....	Chattaroy.....	2	1
The Buffalo Collieries Co.....	Buffalo.....	2	1
Lingohocken Coal Co.....	Lingohocken No. 1.....	1	1
Howard Colliery Co.....	Howard.....	3	1
Winifrede White Ash Coal Co.....	Sugar Tree.....	3	1
W. T. Poole Coal Co.....	Williamson No. 1.....	1	1
Williamson Coal & Coke Co.....	Williamson No. 2.....	1	1
Rawl Coal & Coke Co.....	Rawl No. 1.....	1	1
Rawl Coal & Coke Co.....	Rawl No. 2.....	1	1
White Star Coal Mining Co.....	White Star.....	1	1
Marvin Coal Co.....	Marvin.....	3	1
Red Jacket Consolidated Coal & Coke Co.....	Rutherford.....	3	1
Red Jacket Consolidated Coal & Coke Co.....	Logan.....	3	1
Red Jacket Consolidated Coal & Coke Co.....	Lick Fork.....	3	1
Red Jacket Consolidated Coal & Coke Co.....	Grapevine.....	2	1
Lynn Coal & Coke Co.....	Lynn.....	3	1
Thacker Coal & Coke Co.....	No. 2.....	3	1
Thacker Coal & Coke Co.....	No. 3.....	3	1
Thacker Fuel Co.....	No. 10.....	3	1
Glen Alum Coal Co.....	No. 1.....	2	1
Glen Alum Coal Co.....	No. 2.....	2	1
War Eagle Coal Co.....	Pappoose.....	2	1
War Eagle Coal Co.....	Mephisto.....	3	1
Margaret Mining Co.....	Margaret Nos. 1 & 2.....	4	1
Totals.....		55	12
<i>Wayne County.</i>			
East Lynn Coal Co.....	East Lynn No. 1.....	1	1
Totals.....		1	1

IMPROVEMENTS.



*IMPROVEMENTS REPORTED MADE AT THE MINES DURING THE
YEAR ENDING JUNE 30th, 1909.*

COUNTY.	New Plants.	Power Plants.	Coke Ovens.	Fans.	Furnaces.	Tipples.	Additional Openings.	Totals.
Brooke				1				1
Hancock				1				1
Marion	1	1		1		2	1	6
Marshall		1				1		2
Harrison				1	1			2
Barbour							1	1
Monongalia	1						1	2
Preston		1	30			1		32
Grant					1			1
Mineral	1						2	3
Tucker				1				1
Braxton				1				1
Mason		1				1		2
Putnam		1						1
Fayette	1			8		1	1	11
Kanawha	3	1				2	3	9
Boone	2						2	4
Nicholas	2						2	4
Raleigh	3	1		1		2	3	10
Mercer		1		4				5
McDowell	10	1		4			10	25
Logan	1			4			2	7
Mingo	2	3				3	2	10
Totals	31	12	30	27	2	13	32	147

STRIKES.

*SUMMARY OF THE STRIKES AT COAL MINES IN WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.*

COUNTY.	Total Number of Mines Reporting Strikes.	Total No. of Employees Thrown out of Em- ployment by Strikes.	Number of Companies Reporting in Full.	Number of Companies Reporting Loss to Em- ployees.	Total Loss Reported to Employees.	Number of Companies Reporting Loss to Op- erators.	Total Loss Reported to Operators.
Brooke	3	470	3	2	\$23,128 63	3	\$ 9,592 50
Preston	1	300					
Fayette	22	2,603	7	11	23,000 00	8	14,800 00
Kanawha	26	2,050	3	6	15,625 00	12	400 00
Totals	52	5,423	13	19	61,753 63	13	\$ 24,792 50

STRIKES AT THE COAL MINES IN WEST VIRGINIA FOR THE YEAR ENDING JUNE 30th, 1909.

NAME OF MINE.	Total Employees Before Strike.	Total Strike was Undertaken.	Total Employees Thrown Out of Employment by Strike.	Date of		Were Works Closed in Consequence.	Length of Time Closed. (Working days).	Cause or Object of Strike.	How was Strike Settled.	Lost to Employees.	Loss to Operators.
				Beginning.	Termination.						
<i>Brooke County.</i>											
Lewis No. 1	95	3	70	April 23, 1909	May 23, 1909	Yes	27 days	Miners wanted union recognized.	Employing other men.	\$.....	\$2,500.00
Locust Grove	250	15	225	July 6, 1908	July 21, 1908	Yes	13 days	Dismissing 15 Men.	Dismissed employees involved and old check off.	7,027.00	5,270.00
La Belle Shaft	195	28	175	June 1, 1909	June 10, 1909	Yes	9 days	Changing method of Mining.	Accepted change.	3,128.63	1,822.50
<i>Preston County.</i>											
Tunnelton No. 2	300	300	300	April 1908	April 1909	Yes	1 year	Reduction in wages.	Accepting reduction.	.....	.....
<i>Fayette County.</i>											
Sunday Cr. No. 111	238	238	238	May 25, 1909	June 11, 1909	Yes	15 days	Company demanding long ton.	Returned to short ton.	.....	.....
Sunday Cr. No. 112	280	280	280	May 25, 1909	June 14, 1909	Yes	18 days	Company demanding long ton.	Returned to short ton.	.....	.....
Sunday Cr. No. 114	170	170	170	May 25, 1909	June 12, 1909	Yes	16 days	Company demanding long ton.	Returned to short ton.	.....	.....
Sunday Cr. No. 115	234	234	234	May 25, 1909	June 11, 1909	Yes	15 days	Company demanding long ton.	Returned to short ton.	.....	.....
Columbus Iron & Steel Co. No. 1	100	65	140	May 25, 1909	June 11, 1909	Yes	15 days	Demand for checkoff.	Resumed on old basis.	.....	.....
Oakland	75	45	75	May 25, 1909	June 10, 1909	Yes	14 days	Company demanding long ton.	Company returning to short ton.	3,500.00	1,000.00
Boomer No. 1	211	139	211	May 25, 1909	June 10, 1909	Yes	14 days	Company wanting uniform scale.	By obtaining partial recognition of uniform scale.	.....	.....
Boomer No. 2	275	182	275	May 25, 1909	June 10, 1909	Yes	14 days	Company wanting uniform scale.	By obtaining partial recognition of uniform scale.	4,500.00	2,800.00
Boomer No. 2 S'th	234	148	234	May 25, 1909	June 10, 1909	Yes	14 days	Company wanting uniform scale.	By obtaining partial recognition of uniform scale.	5,000.00	3,000.00
Boomer No. 3	227	147	227	May 25, 1909	June 10, 1909	Yes	14 days	Company wanting uniform scale.	By obtaining partial recognition of uniform scale.	5,000.00	3,000.00
Eagle No. 1	40	40	40	May 25, 1909	June 11, 1909	Yes	15 days	Company demanding long ton.	Returning to short ton.	5,000.00	3,000.00

Splint No. 5	21	21	May 25, 1909	June 11, 1909	Yes	15 days	Company demanding long ton.	Returning to short ton.	.....
Splint No. 6	15	15	May 25, 1909	June 11, 1909	Yes	15 days	Company demanding long ton.	Returning to short ton.	.....
Mecca No. 2	69	69	May 25, 1909	June 13, 1909	Yes	17 days	Company demanding long ton.	Returning to short ton.	.....
Carver Bros. Co.	110	75	May 25, 1909	June 12, 1909	Yes	16 days	Company demanding long ton.	Returning to short ton.	.....
Nos. 2 & 3									.....
Carver Bros. Co.	35	25	May 25, 1909	June 12, 1909	Yes	16 days	Company demanding long ton.	Returning to short ton.	.....
No. 5 Splint			May 30, 1909	May 30, 1909	Yes	5 days	Company demanding long ton.	Returning to short ton.	.....
Columbia No. 5	103	56	May 25, 1909	June 11, 1909	Partially	15 days	Company demanding long ton.	Returning to short ton.	.....
Vulcan			June 18, 1909	Not given	No report		Company demanding long ton.	.....	.....
Lynchburg									.....
Gammon									.....
Splint									.....
Deltz No. 2	35	35	June 16, 1909	Not given	Yes	78 days	Company demanding long ton.	Went to work on long ton.	\$2,000.00
			Mar 1, 1909	June 1, 1909	Yes				.....
<i>Kanawha County:</i>									
Campbell's Creek									.....
Nos. 1, 3, 4 & 6.	250	130	May 25, 1909	June 12, 1909	Yes	16 days	Company demanding long ton.	Returning to short ton.	.....
Quincy No. 1		45	May 25, 1909	June 12, 1909	Yes	16 days	Company demanding long ton.	Returning to short ton.	.....
Quincy No. 2	126	78	May 25, 1909	June 12, 1909	Yes	16 days	Company demanding long ton.	Returning to short ton.	.....
Sunday Cr. No. 101	116	68	May 25, 1909	June 7, 1909	Yes	12 days	Company demanding long ton.	Returning to short ton.	.....
Sunday Cr. No. 104	138	116	May 25, 1909	June 1, 1909	Yes	5 days	Company demanding long ton.	Returning to short ton.	.....
Sunday Cr. No. 105	102	58	May 25, 1909	June 1, 1909	No		Company demanding long ton.	Returning to short ton.	.....
Sunday Cr. No. 109	225	166	May 25, 1909	June 11, 1909	Yes	15 days	Company demanding long ton.	Returning to short ton.	6,000.00
Hughston Nos. 2 & 3									.....
Monarch No. 2	210	120	May 25, 1909	June 8, 1909	Yes	12 days	Company demanding long ton.	Returning to short ton.	.....
Nos. 1 & 2	85	85	May 25, 1909	June 15, 1909	Yes	19 days	Company demanding long ton.	Returning to short ton.	3,500.00
Butler	24	24	May 25, 1909	June 15, 1909	Yes	19 days	Company demanding long ton.	Returning to short ton.	1,000.00
Butler No. 2	30	30	May 25, 1909	June 15, 1909	Yes	19 days	Company demanding long ton.	Returning to short ton.	2,500.00
Peerless	31	26	May 25, 1909	June 9, 1909	Yes	13 days	Company demanding long ton.	Returning to short ton.	625.00
Ronda	88	75	June 23, 1909	Not given	Yes		Company demanding long ton.	Returning to short ton.	.....
New Coalburg	97	97	May 25, 1909	Not given	Yes		Company demanding long ton.	Returning to short ton.	.....
Imperial No. 1	83	55	May 25, 1909	June 2, 1909	Yes	7 days	Company demanding long ton.	Returning to short ton.	.....
Chesapeake No. 1	126	126	May 25, 1909	May 31, 1909	Yes	6 days	Company demanding long ton.	Returning to short ton.	.....
Chesapeake Nos. 2 & 3	141	141	May 25, 1909	May 31, 1909	Yes	6 days	Company demanding long ton.	Returning to short ton.	.....
Upper Creek	100	100	May 25, 1909	June 14, 1909	Yes	18 days	Company demanding long ton.	Returning to short ton.	\$2,000.00 & 300.00

DIRECTORY OF THE MINES.

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Brooke County.</i>						
1	*First	A. Gilchrist & Son's Coal Co.	107	Gilchrist	drift	Wellsburg
2	First	La Belle Coal Co.	108	Lewis No. 1	drift	Wellsburg
3	First	Beech Bottom Coal Co.	109	Beech Bottom No. 1	drift	Wellsburg
4	First	Lewis-Findley Coal Co.	104	Locust Grove	drift	Colliers
5	First	La Belle Iron Works	105	La Belle	shaft	Stebenville, O.
6	First	Rex Carbon Coal Co.	106	Rex No. 1	drift	Virginville
<i>Hancock County.</i>						
7	First	The Marquet Coal Co.	101	No. 1	drift	New Cumberland
8	First	The Marquet Coal Co.	102	No. 5	drift	New Cumberland
<i>Marion County.</i>						
9	First	Fairmont Coal Co.	133	Murray	drift	Fairmont
10	First	Fairmont Coal Co.	136	Montana	drift	Fairmont
11	First	Fairmont Coal Co.	128	Shaft	shaft	Fairmont
12	First	Fairmont Coal Co.	138	New England	drift	Fairmont
13	First	Fairmont Coal Co.	137	Gaston	drift	Fairmont
14	First	Fairmont Coal Co.	140	Monongah No. 2 or 5	slope	Fairmont
15	First	Fairmont Coal Co.	139	Monongah No. 3	drift	Fairmont
16	First	Fairmont Coal Co.	139	Monongah No. 6	slope	Fairmont
17	First	Fairmont Coal Co.	142	Monongah No. 8	drift	Fairmont
18	First	Fairmont Coal Co.	141	Shaver Nos. 1 & 2	2 drifts	Fairmont
19	First	Fairmont Coal Co.	143	Pennois	drift	Fairmont
20	First	Fairmont Coal Co.	148	Anderson	drift	Fairmont
21	First	Fairmont Coal Co.	149	Highland	drift	Fairmont
22	First	Fairmont Coal Co.	150	Middleton	drift	Fairmont
23	First	Fairmont Coal Co.	151	Chiefton	drift	Fairmont
24	First	Fairmont Coal Co.	152	Hutchinson	slope	Fairmont
25	First	George's Creek Coal & Iron Co.	126-7	Chatham Nos. 1 & 2	2 shafts	Farmington
26	First	New Central Coal Co.	130	Stafford	shaft	Fairmont
27	First	Federal Coal & Coke Co.	131	Federal	shaft	Fairmont
28	First	The Virginia & Pittsburg Coal & Coke Co.	153	Kingmont	drift	Fairmont
29	First	Parker Run Coal & Coke Co.	132	Parker Run	drift	Fairmont
30	First	Harry B. Coal Co.	144-5	Harry Nos. 1 & 2	2 drifts	Fairmont
31	First	Kilarn Coal & Coke Co.	146-7	Kilarn Nos. 1 & 2	2 drifts	Monongah
32	First	Pittsburg Steam Coal Co.	135	Elizabeth	drift	Monongah
33	First	Catawba Coal Co.	134	Catawba	drift	Con'tilsville, Pa.
34	First	Dakota Coal & Coke Co.	129	Dakota	shaft	Fairmont
34a	First	Fairmont & Lincoln Coal & Coke Co.	157	Lincoln	drift	Fairmont
<i>Marshall County.</i>						
35	First	Hitchman Coal & Coke Co.	121	Hitchman	slope	Wheeling
36	First	Boggs Run Mining & Manufacturing Co.	119	Boggs Run	drift	Wheeling
37	First	Wheeling Steel & Iron Co.	120	Benwood Mill	drift	Wheeling
38	First	Glendale Coal Co.	122	Glendale	shaft	Glendale
39	First	Mound Coal Co.	123	Moundsville	shaft	Moundsville
40	First	Bituminous Coal Co. of America	124	Bituminous No. 1	shaft	Moundsville
41	First	Panama Coal Mining Co.	125	Panama	shaft	Moundsville
<i>Ohio County.</i>						
42	First	Richland Coal Co.	110	Richland	drift	Wheeling
43	First	Elm Grove Coal Co.	111	Elm Grove	shaft	Elm Grove
44	First	Whitaker-Glessner Co.	115	Carter	drift	Wheeling
45	First	Reymann Brewing Co.	114	Manchester	drift	Wheeling
46	First	J. S. Creighton	117	Creighton	slope	Wheeling
47	First	Peter Storch & Sons	118	Storch	drift	Edgington Lane
48	First	La Belle Iron Works	116	La Belle	drift	Stebenville, O.
<i>Harrison County.</i>						
49	*Second	Clarksburg Fuel Co.	220	Fall Run	drift	Fairmont
50	Second	Clarksburg Fuel Co.	222	Pinnicknick	drift	Fairmont

* First District—R. S. LaRue, Inspector.
I Idle during year. J Just being opened.

* Second District—Frank E. Parsons, Inspector.

*NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

Name of Superintendent.	Name of Mine Foreman.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
Alex. Gilchrist.....	Wm. T. Gilchrist.....	Pgh. No. 8	4-8	furnace	70	1
O. L. Marquet.....	John Hall.....	Pgh. No. 8	4-10	fan	90	2
Elmer Hough.....	C. E. Seidler.....	Pgh. No. 8	5-8	fan	122	3
E. M. Findley.....	James Platts.....	Pgh. No. 8	4-8	fan	234	4
R. W. McCosland.....	W. J. Lafferty.....	Lo. Free	3-10	fan	141	5
Wm. Gulley.....	Wm. Gulley.....	Pgh. No. 8	4-6	fan	108	6
C. F. Wagoner.....	Wm. Gilmore.....	No. 7a	3-6	fan	82	7
C. F. Wagoner.....	Wm. Gilmore.....	No. 7a	4-6	furnace	15	8
H. M. Smith.....	Wm. Hess.....	Pittsburg	7-8	natural	66	9
J. H. Bainbridge.....	W. N. Malone.....	Pittsburg	6-7	fan	151	10
C. E. Gaskill.....	Hayes Gaskill.....	Pittsburg	7-8	fan	186	11
H. C. Ash.....	B. G. Ash.....	Pittsburg	7-8	fan	195	12
Geo. Gaskill.....	P. C. Vernon.....	Pittsburg	7-8	fan	143	13
David Victor.....	Elza Level.....	Pittsburg	7-8	fan	98	14
David Victor.....	James Rodger.....	Pittsburg	7-8	fan	42	15
David Victor.....	James Gaskill.....	Pittsburg	7-8	fan	178	16
David Victor.....	P. J. McGraw.....	Pittsburg	7-8	fan	173	17
David Victor.....	Elza Level.....	Pittsburg	7-8	3 fans	104	18
Rush Miller.....	A. K. Parsons.....	Pittsburg	6-7	fan	146	19
Rush Miller.....	M. Coburn.....	Pittsburg	7-8	fan	96	20
Rush Miller.....	John Prunty.....	Pittsburg	7-8	fan	182	21
Rush Miller.....	Bland Courtney.....	Pittsburg	7-8	fan	116	22
Rush Miller.....	L. E. Henderson.....	Pittsburg	7-8	2 fans	127	23
Brooks Fleming, Jr.....	Thos. Burluck.....	Pittsburg	7-8	fan	87	24
John Hunter.....	M. E. Quenon.....	Pittsburg	9-0	fan	330	25
Duncan Sinclair.....	Thomas Gleason.....	Pittsburg	8-6	fan	147	26
W. C. Tucker.....	Wm. B. Jones.....	Pittsburg	8-0	fan	295	27
R. M. Hite.....	Wm. Jarrett & J. Brown	Pittsburg	9-0	fan	245	28
W. A. Martin.....	W. C. Martin.....	Sewickley	6-2	fan	46	29
George Coburn.....	Geo. Coburn.....	Pittsburg	7-2	furnace	47	30
C. E. Zeek.....	W. E. Smallwood.....	Pittsburg	5-6	fan	25	31
Jos. R. Bailey.....	Grant Swisher.....	Pittsburg	7-0	furnace	19	32
Geo. T. Rodeheaver.....	Geo. T. Rodeheaver.....	Pittsburg	8-0	natural	9	33
J. G. Hunt.....	S. R. Fetty.....	Sewickley	5-0	stack	7	34
Geo. S. Price.....		Pittsburg	9-0			34a
W. H. Koch.....	E. C. Pickett.....	Pgh. No. 8	5-6	fan	186	35
Philip Kuntz.....	Eugene Miller.....	Pgh. No. 8	5-6	fan	16	36
Chailey Dawson.....	Wm. Turnbull.....	Pgh. No. 8	5-6	fan	61	37
E. C. Pickett.....	M. Freeman.....	Pgh. No. 8	5-8	fan	24	38
Adam Leonard.....	Adam Leonard.....	Pgh. No. 8	5-6	fan	32	39
O. K. Ward.....	J. E. Wallace.....	Pgh. No. 8	5-6	fan	20	40
O. K. Ward.....	James Exton.....	Pgh. No. 8	6-0	fan		41
J. P. Leonard.....	Wm. Nixon.....	Pgh. No. 8	5-6	fan	137	42
J. B. Chambers.....	Albert Elkey.....	Pgh. No. 8	5-0	fan	56	43
W. H. Kasley.....	Wm. Magruder.....	Pgh. No. 8	4-10	fan	38	44
	John Donohoe.....	Pgh. No. 8	4-6	fan	10	45
J. S. Creighton.....	Daniel Shaw.....	Pgh. No. 8	5-0	fan	4	46
Peter Storch.....		Pgh. No. 8	5-0	natural	5	47
G. B. Hewey.....	Wm. Blond.....	Pgh. No. 8	5-5	natural	14	48
Luke Murray.....	S. L. Schrader.....	Pittsburg	5-5	furnace	44	49
J. H. Nuzum.....	Thos. Pollock.....	Pittsburg	7-8	fan	185	50

*DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.*

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Open- ing.	Post Office Address.
<i>Harrison County—Con't.</i>						
51	Second	Clarksburg Fuel Co.	249	O'Niell	drift	Fairmont
52	Second	Clarksburg Fuel Co.	257	Dixie	drift	Fairmont
53	Second	Clarksburg Fuel Co.	259	Two Lick	drift	Fairmont
54	Second	Clarksburg Fuel Co.	265	Interstate	2 drifts	Fairmont
55	Second	Clarksburg Fuel Co.	225	Despard	drift	Fairmont
56	Second	Fairmont Coal Co.	201	Enterprise	slope	Fairmont
57	Second	Fairmont Coal Co.	203	Viropa	drift	Fairmont
58	Second	Fairmont Coal Co.	204	Riverdale	drift	Fairmont
59	Second	Fairmont Coal Co.	207-8	Ehlen Nos. 2 & 1	2 drifts	Fairmont
60	Second	Fairmont Coal Co.	209	Solon	drift	Fairmont
61	Second	Fairmont Coal Co.	210-11	Gypsy Nos. 5 & 7	2 drifts	Fairmont
62	Second	Fairmont Coal Co.	213	Meadowbrook No. 1	drift	Fairmont
63	Second	Fairmont Coal Co.	213a	Meadowbrook No. 2	drift	Fairmont
64	Second	Fairmont Coal Co.	216	Globe	drift	Fairmont
65	Second	Fairmont Coal Co.	219	Dunham	drift	Fairmont
66	Second	Fairmont Coal Co.	227	Ocean	drift	Fairmont
67	Second	Fairmont Coal Co.	226	Columbia	drift	Fairmont
68	Second	Fairmont Coal Co.	238	Robinson Run	drift	Fairmont
69	Second	Fairmont Coal Co.	252	Reynoldsville	drift	Fairmont
70	Second	Fairmont Coal Co.	258	Lynch	drift	Fairmont
71	Second	Fairmont Coal Co.	262	West Fork	drift	Fairmont
72	Second	Pittsburg & Fairmont Fuel Co.	228	Perry No. 1	drift	Fairmont
73	Second	Pittsburg & Fairmont Fuel Co.	229	Perry No. 2	drift	Fairmont
74	Second	Pittsburg & Fairmont Fuel Co.	230	Coaling Station	drift	Fairmont
75	Second	Pittsburg & Fairmont Fuel Co.	236	Pooz	drift	Fairmont
76	Second	Pittsburg & Fairmont Fuel Co.	237	Lucas	drift	Fairmont
77	Second	Virginia-Maryland Coal Corporation	205	Willard No. 1	drift	Shinnston & Adamston
78	Second	Virginia-Maryland Coal Corporation	206	Willard No. 2	drift	Shinnston & Adamston
79	Second	Cook Coal & Coke Co.	214	Girard No. 1	drift	Meadowbrook
80	Second	Cook Coal & Coke Co.	215	Girard No. 1a	drift	Meadowbrook
81	Second	Corona Coal & Coke Co.	221	Harold	drift	Clarksburg
82	Second	Central Fairmont Coal Co.	223	Snake Hill	drift	Clarksburg
83	Second	Vincent Coal Co.	224	Grasselli	drift	Clarksburg
84	Second	Haywood Coal Mining Co.	269	Monroe	drift	Clarksburg
85	Second	Meadowbrook Coal & Coke Co.	231	Erie	drift	Hepzibah
86	Second	Harrison County Coal Co.	232	Overholt	drift	Fairmont
87	Second	W. B. Gunton Coal Co.	254 *	Overholt & Phoenix	drift & slope	Reynoldsville
88	Second	Lambert Run Coal Co.	235	Clauson	drift	Meadowbrook
89	Second	Hero Coal & Coke Co.	234	Hero	drift	Lumberport
90	Second	Blue Ridge Coal Co.	235	Thompson	drift	Clarksburg
91	Second	Rose Bud Coal Co.	239	Rosebud	drift	Rosebud
92	Second	Monroe Colliery Co.	240	Sylvester	drift	Rosebud
93	Second	National Coal Co.	241	National	drift	Dola
94	Second	Fayette Coal Co.	242	Fayette	drift	Dola
95	Second	Short Line Coal Co.	243	Girard No. 2	drift	Dola
96	Second	Fairmont & Baltimore Coal & Coke Co.	244	Fairmore	drift	Adamston
97	Second	Madeira-Hill-Clark Coal Co.	245	Goff	drift	Fairmont
98	Second	Madeira-Hill-Clark Coal Co.	246	Waldo	drift	Fairmont
99	Second	Madeira-Hill-Clark Coal Co.	251	New Chieftain	drift	Fairmont
100	Second	Madeira-Hill-Clark Coal Co.	250	Randolph	drift	Fairmont
101	Second	Southwestern Coal Co.	247	Miller No. 1	drift	Wilsonburg
102	Second	Southwestern Coal Co.	248	Meller No. 2	drift	Wilsonburg
103	Second	Washington Fuel Co.	247-8	Meller Nos. 1 & 2	2 drifts	Wilsonburg

* First District—R. S. LaRue, Inspector.

*NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYES.*

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thickness, Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
J. R. Elsess	G. B. Skinner	Pittsburg	5-7	fan	95	51
G. W. Eliason	G. W. Eliason	Pittsburg	6-7	natural	7	52
Lowell Childs	S. W. Lewis	Pittsburg	5-7	fan	57	53
L. C. Keener	J. L. Thomas	Pittsburg	5-7	fan	51	54
A. W. Rapp	Geo. H. Brooks	Pittsburg	8-0	fan	16	55
H. H. Watson	Thos. Smith	Pittsburg	7-8	fan	201	56
H. H. Watson	Floyd Gandy	Pittsburg	7-8	fan	91	57
H. H. Watson	W. D. Wallace	Pittsburg	7-8	fan	57	58
Thos. Jarrett, Jr.	Claud Allison	Pittsburg	7-8	2 fans	112	59
Thos. Jarrett, Jr.	O. Bush	Pittsburg	7-8	fan	93	60
L. W. Smith	Burt Russell	Pittsburg	7-8	2 fans	104	61
A. C. Poling	Geo. Hamrick	Pittsburg	7-8	fan	74	62
A. C. Poling	Geo. Hamrick	Pittsburg	7-8	fan		63
P. J. McAndrews	P. J. McAndrews	Pittsburg	7-8	fan	24	64
Luke Murray	Walter Miller	Pittsburg	7-8	fan	52	65
K. D. Bailey	C. D. Powell	Pittsburg	7-8	fan	77	66
A. W. Rapp	M. J. Rooney	Pittsburg	6-8	fan	83	67
E. P. Goedcke	Adam Gross	Pittsburg	7-8	fan	29	68
J. R. Elsess		Pittsburg	6-0	fan	22	69
Lowell Childs	Brooks Patton	Pittsburg	5-7	fan	14	70
Lowell Childs	J. M. Matheny	Pittsburg	5-6	fan	18	71
A. V. Morgan	A. L. Hood	Pittsburg	6-7	fan	77	72
A. V. Morgan	M. C. Gandy	Pittsburg	6-7	fan		73
A. V. Morgan	M. C. Gandy	Pittsburg	6-7	fan	33	74
A. C. Ice	R. E. Kerns	Pittsburg	6-7	fan	43	75
A. C. Ice	John Walters	Pittsburg	6-7	fan	35	76
A. Lisle White	Eli Morris	Pittsburg	8-6	fan	67	77
A. Lisle White	Eli Morris	Pittsburg	7-6	furnace		78
P. B. Robinson	E. P. McOlvin	Pittsburg	7-6	fan	65	79
P. B. Robinson	E. P. McOlvin	Pittsburg	7-6	fan		80
Ed. Clingan	Ed. Clingan	Pittsburg	8-0	fan	80	81
Fred Howard	A. G. Hilbert	Pittsburg	9-0	furnace	43	82
V. E. Goeke	Grant White	Pittsburg	8-6	furnace	46	83
Seymour McIntyre	Ed. Cornell	Pittsburg	8-0	air shaft	45	84
R. E. Garrett	S. S. Litten	Pittsburg	9-0	fan	97	85
Geo. S. Price	Oscar Martin	Pittsburg	8-6	furnace	11	86
W. B. Gunton, G. M.	M. Mannix	Pittsburg	7-0	fan	24	87
Dorsey Pople		Pittsburg	7-9	fan	12	88
Robt. Shaffer	Robert Shaffer	Pittsburg	9-0	natural	21	89
Isham Keith	Frank Limer	Pittsburg	9-0	fan	46	90
Toney Starr and J. A. Straight	Toney Starr	Pittsburg	7-6	fire basket	32	91
B. H. Monroe	W. F. White	Pittsburg	8-0	furnace	31	92
E. J. Fahey	Geo. Adams	Pittsburg	6-0	furnace	20	93
B. F. Greaves	J. W. Johnson	Pittsburg	6-0	furnace	27	94
P. B. Robinson	E. G. Vincent	Pittsburg	7-6	fan	76	95
A. Lisle White	T. J. Westmoreland	Pittsburg	7-6	fan	85	96
W. R. Wilburn	C. J. Fowler	Pittsburg	7-0	fan	48	97
W. R. Wilburn	A. G. Coburn	Pittsburg	7-0	fan	120	98
W. R. Wilburn	C. J. Adams	Pittsburg	5-6	fan	122	99
W. R. Wilburn	C. J. Adams	Pittsburg	5-6	fan		100
L. B. Stevens	D. E. Brown	Pittsburg	7-6	furnace	29	101
L. B. Stevens	D. E. Brown	Pittsburg	7-6	furnace		102
D. E. Brown	D. E. Brown	Pittsburg	7-9	furnace	18	103

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Harrison County—Con't.</i>						
104	Second	O'Gara Coal Mining Co.....	253	O'Gara.....	slope	Clarksburg.....
105	Second	Pitcairn Coal Co.....	256	Pitcairn.....	drift	Clarksburg.....
106	Second	Marshall Coal Co.....	260	Marshall.....	drift	Mt. Clare.....
107	Second	Cook & Hart Coal Co.....	261	Cook.....	drift	Fairmont.....
108	Second	Hutchinson Fuel & Supply Co.....	263	Hutchinson No. 1.....	drift	Fairmont.....
109	Second	Hutchinson Fuel & Supply Co.....	264	Hutchinson No. 2.....	drift	Fairmont.....
110	Second	J. Marion Gas Coal Co.....	276	Bingamon.....	drift	Enterprise.....
<i>Lewis County.</i>						
111	Second	Jacksonville Coal & Coke Co.....	270	Sarah B. No. 3.....	drift	Jacksonville.....
<i>Upshur County.</i>						
112	Second	Red Rock Fuel Co.....	272	Red Rock No. 1.....	drift	Red Rock.....
113	Second	Red Rock Fuel Co.....	273	Red Rock No. 2.....	drift	Red Rock.....
114	Second	Newcomer Coal Co.....	274	Newcomer.....	drift	Teter.....
115	Second	Buckhannon River Coal Co.....	275	Florence.....	drift	Adrian.....
<i>Barbour County.</i>						
116	*Third	Merriden Coal Mining Co.....	355	Merriden No. 1.....	drift	Merriden.....
117	Third	Merriden Coal Mining Co.....	356	Merriden No. 2.....	drift	Merriden.....
118	Third	Merriden Coal Mining Co.....	357	Merriden No. 3.....	drift	Merriden.....
119	Third	Merriden Coal Mining Co.....	358	Merriden No. 4.....	drift	Merriden.....
120	Third	Merriden Coal Mining Co.....	359	Merriden No. 5.....	drift	Merriden.....
121	Third	Tygart's River Coal Co.....	352	Arden.....	drift	Arden.....
122	Third	Fairmont Coal Co.....	354	Berryburg Nos. 1 & 2.....	2 drifts	Fairmont.....
123	Third	Laurel Creek Coal Co.....	351	Laurel Creek.....	drift	Grafton.....
124	Third	The Century Coal Co. of West Virginia.....	365	Century No. 1.....	shaft	Century.....
125	Third	The Century Coal Co. of West Virginia.....	364	Century No. 2.....	drift	Century.....
126	Third	Grafton Fuel Co.....	360	Lillian No. 1.....	drift	Grafton.....
127	Third	Grafton Fuel Co.....	361	Lillian No. 2.....	drift	Grafton.....
128	Third	Grafton Fuel Co.....	361a	Lillian No. 3.....	drift	Grafton.....
129	Third	The Penna. Coal Mining Co.....	366	I Adma.....	drift	Pittston, Pa.....
130	Third	Davis Coal & Coke Co.....	371	Weaver No. 3.....	drift	Weaver.....
131	Third	Davis Coal & Coke Co.....	370	a Weaver No. 4.....	slope	Weaver.....
132	Third	Miller Coal & Coke Co.....	369	Sara.....	drift	Junior.....
133	Third	Davis Colliery Co.....	372	Junior No. 4.....	drift	Elkins Philippi R. F. D.
134	Third	Midland Coal & Coke Co.....	353	Midland.....	shaft No. 2	Philippi.....
135	Third	Luella Coal & Coke Co.....	373	Luella.....	drift	Philippi.....
136	Third	Humphreys Colliery Co.....	374	Humphrey.....	drift	Philippi.....
<i>Monongalia County.</i>						
137	Third	Opekiska Coal & Coke Co.....	304	Opekiska.....	drift	Opekiska.....
138	Third	Fairmont Coal Co.....	303	Beechwood.....	drift	Fairmont.....
139	Third	Elkins Coal & Coke Co.....	307	Richard or No. 1.....	drift	Morgantown.....
140	Third	Elkins Coal & Coke Co.....	305	Sabraton or No. 5.....	drift	Morgantown.....
141	Third	Connellsville Basin Coke Co.....	306	Nos. 1, 2 & 3.....	3 drifts	Richard.....
142	*Third	The Great Scott Coal & Coke Co.....	301	Great Scott No. 1.....	drift	Morgantown.....
143	Third	Grant Coal Co.....	302	Grant.....	4 drifts	Fairmont.....
<i>Preston County.</i>						
144	Third	The Austen Coal & Coke Co.....	323	Austen.....	drift	Austen.....
145	Third	The Austen Coal & Coke Co.....	324	Austen No. 2.....	drift	Austen.....
146	Third	Hamilton Coal & Coke Co.....	327	Newburg Shaft.....	shaft	Newburg.....
147	Third	Gorman Coal & Coke Co.....	321	West End No. 1.....	drift	Austen.....
148	Third	Gorman Coal & Coke Co.....	322	Gorman No. 2.....	drift	Austen.....
149	Third	Irona Coal Co.....	312	Irona No. 1.....	drift	Irona.....
150	Third	Irona Coal Co.....	313	Irona No. 2.....	2 drifts	Irona.....

* Third District—John F. Bratt, Inspector.
Idle all year.

J Just being developed. a Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness, Ft. In.	Kind of Ventilation.	Total Inside Employes.	No.
C. D. M. Cramer.....	R. H. Pollock.....	Pittsburg.....	6-6.....	fan.....	70	104
James A. Jenkins.....	Wm. Gantz.....	Pittsburg.....	7-9.....	fan.....	88	105
D. R. Williams.....	None at Present.....	Pittsburg.....	8-0.....	fan.....	125	106
James Cook.....	Thomas Price.....	Pittsburg.....	8-0.....	natural.....	30	107
W. G. H. Crawford.....	W. B. Malone.....	Pittsburg.....	7-0.....	fan.....	110	108
W. G. H. Crawford.....	W. B. Malone.....	Pittsburg.....	7-0.....	fan.....		109
Jas. B. Weightman.....		Pittsburg.....				110
Wm. Atkin.....	Nicholas Cole.....	Pittsburg.....	5-3.....	furnace.....	50	111
Robt. Lang, Jr.....	J. A. Burke.....	Red Stone.....	4-0.....	fan.....	62	112
Robt. Lang, Jr.....	J. A. Burke.....	Red Stone.....	4-0.....	fan.....		113
R. H. Parker.....	Geo. L. Campbell.....	Pittsburg.....	6-6.....	furnace.....	24	114
J. W. Reckard.....	J. W. Reckard.....	Mason's n.....	5-8.....	furnace.....	17	115
L. J. Sandridge.....	G. B. Meyers.....	Up. Fr'pt.....	6-0.....	} fan.....	55	116
L. J. Sandridge.....	G. B. Meyers.....	Up. Fr'pt.....	6-0.....			117
L. J. Sandridge.....	G. B. Meyers.....	Up. Fr'pt.....	6-0.....			118
L. J. Sandridge.....	G. B. Meyers.....	Up. Fr'pt.....	6-0.....			119
L. J. Sandridge.....	G. B. Meyers.....	Mahoning.....	4-0.....	natural.....	39	120
Chas. A. Cook.....	Geo. F. Gatian.....	Up. Fr'pt.....	6-0.....	fan.....		121
W. W. Ferguson.....	Lee Cotrell.....	Pittsburg.....	6-8.....	2 fans.....	160	122
W. S. Brydon.....	C. B. Trimbell.....	Up. Fr'pt.....	5-8.....	air shaft.....	22	123
Ed. Williams.....	A. B. McMurdo.....	Red Stone.....	5-6.....	fan.....	268	124
Ed. Williams.....	H. G. Mundy.....	Red Stone.....	5-6.....	furnace.....		125
W. S. Brydon.....	F. V. Robinson.....	Mahoning.....	4-0.....	air shaft.....	66	126
W. S. Brydon.....	F. V. Robinson.....	Up. Fr'pt.....	5-8.....	air shaft.....		127
W. S. Brydon.....	F. V. Robinson.....					128
A. B. Brown, Pres.....		Up. Fr'pt.....	7-0.....	furnace.....	51	129
W. W. Brewer.....	J. H. Davis.....	Up. Fr'pt.....	6-0.....	fan.....		130
J. W. S. Miller.....	H. C. Haskins.....	Up. Fr'pt.....				131
J. F. Healey, G. M.....		Up. Fr'pt.....	5-0.....	fan.....	18	132
G. C. Landis.....		Up. Fr'pt.....	5-0.....	fan.....	2	133
Jas. A. Robinson.....		Up. Fr'pt.....	5-3.....	fan.....	41	134
A. N. Humphreys.....		Up. Fr'pt.....	6-0.....	furnace.....	11	135
		Up. Fr'pt.....	6-0.....	fan.....	12	136
C. B. Maretta.....	Elmer Wilfong.....	Pittsburg.....	8-0.....	natural.....	31	137
H. L. Toothman.....	C. H. Johnson.....	Pittsburg.....	7-8.....	natural.....	61	138
J. H. Hanford.....	O. T. Barnard.....	Up. Fr'pt.....	4-0.....	fan.....	123	139
J. H. Hanford.....	W. E. Graham.....	Pittsburg.....	10-0.....	fan.....	23	140
Thos. H. Graham.....	W. D. Roberts.....	Up. Fr'pt.....	3-0.....	2 fans.....	106	141
A. G. Tait.....	W. H. Deets.....	Pittsburg.....	9-6.....	natural.....	3	142
F. W. McIntire.....	Robt. Donlin.....	Pittsburg.....	9-0.....	furnace.....	24	143
F. W. Horchler.....	A. R. Murphy.....	Up. Fr'pt.....	4-6.....	fan.....	135	144
F. W. Horchler.....	Geo. R. Cook.....	Up. Fr'pt.....	4-6.....	fan.....	70	145
F. A. Husted, (rec'vr).....	E. L. Griffiths.....	Up. Fr'pt.....	4-0.....	fan.....	15	146
Thomas Murphy.....	B. F. Williams.....	Up. Fr'pt.....	4-6.....	furnace.....	12	147
Thomas Murphy.....	Thomas Murphy.....	Up. Fr'pt.....	4-6.....	fan.....	71	148
T. R. Spencer.....	J. F. Watkins.....	Up. Fr'pt.....	4-4.....	fan.....	62	149
T. R. Spencer.....	J. F. Watkins.....	Up. Fr'pt.....	4-4.....	furnace.....	21	150

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series. No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Preston County—Con't.</i>						
151	Third	Merchants Coal Co.	318	r Tunnelton No. 1.	drift	Tunnelton
152	Third	Merchants Coal Co.	319	Merchants No. 2	drift	Tunnelton
153	Third	Merchants Coal Co.	320	a Merchants No. 3.	drift	Tunnelton
154	Third	Oakland Coal & Coke Co.	317	Corinth	drift	Corinth
155	Third	Kingwood Coal Co.	315	Howesville	drift	Howesville
156	Third	Hite Coal & Coke Co.	325	Dixie	drift	Hiorra
157	Third	Orr Coal & Coke Co.	326	Vulcan	drift	Hiorra
158	Third	Manufacturers Coal & Coke Co.	328-9	Victoria Nos. 1 & 2.	slope	Kingwood
159	Third	Atlantic Coal & Coke Co.	316	i Atlantic	drift	Tunnelton
160	Third	Elkins Coal & Coke Co.	308	Bretz No. 2	drift	Morgantown
161	Third	Elkins Coal & Coke Co.	311	No. 1 at Kingwood	drift	Morgantown
162	Third	Elkins Coal & Coke Co.	311a	or No. 4	drift	Morgantown
163	Third	Elkins Coal & Coke Co.	309	No. 2 at Kingwood	drift	Morgantown
164	Third	Preston County Coke Co.	310	or No. 4	2 drifts	Morgantown
				Cascade No. 1	drift	Cascade
<i>Taylor County.</i>						
165	Third	Grafton Coal & Coke Co.	339	Sand Lick	drift	Grafton
166	Third	Pittsvein Coal Co.	344	Flemington Nos. 2 & 4	2 drifts	Flemington
167	Third	L. B. Brydon	337	i Brydon	drift	Grafton
168	Third	T. B. Davis	343	I. B. Davis	drift	Piedmont
169	Third	McGraw Coal Co.	338	New York No. 1.	drift	Simpson
170	Third	Rosemont Coal Co.	345	Rosemont	drift	Tyre'nn'll Mines
171	Third	Maryland Coal Co.	340	Wendel No. 1.	drift	Grafton
172	Third	Maryland Coal Co.	341	Wendel No. 2.	drift	Grafton
173	Third	Maryland Coal Co.	341	Wendel No. 3.	drift	Grafton
174	Third	Maryland Coal Co.	342	Wendel No. 4.	drift	Grafton
175	Third	Maryland Coal Co.	376	Wendel No. 5.	drift	Grafton
176	Third	Winona Coal & Coke Co.	333	Winona No. 1.	drift	Grafton
177	Third	Winona Coal & Coke Co.	334	Winona No. 2.	drift	Grafton
178	Third	Harrison Coal Co.	347	Harrison	drift	Tyre'nn'll Mines
179	Third	East Grafton Coal & Coke Co.	332	e East Grafton	drift	Thornton
180	Third	s Johnson Brothers Coal Co.	349	Cecil	drift	Bellaire, O.
<i>Grant County.</i>						
181	oFourth	Davis Coal & Coke Co.	421	Henry No. 22	shaft	Henry
182	Fourth	Buffalo Creek Cumberland Coal Co.	423	Buffalo Creek	drift	Bayard
183	Fourth	Cottage Street Coal Co.	424	Cottage Street	drift	Bayard
<i>Mineral County.</i>						
184	Fourth	Davis Coal & Coke Co.	426	No. 6	drift	Elk Garden
185	Fourth	Davis Coal & Coke Co.	428	Hartmansville No. 9	drift	Elk Garden
186	Fourth	Davis Coal & Coke Co.	425	Tyson No. 10	drift	Elk Garden
187	Fourth	Davis Coal & Coke Co.	434	Kittanning No. 14.	drift	Elk Garden
188	Fourth	Davis Coal & Coke Co.	429	Kittanning No. 15.	drift	Elk Garden
189	Fourth	Davis Coal & Coke Co.	427	Ott No. 20.	drift	Elk Garden
190	Fourth	Davis Coal & Coke Co.	438	Montgomery Run	drift	Beryl
191	Fourth	Davis Coal & Coke Co.	439	No. 19.	drift	Beryl
192	Fourth	Davis Coal & Coke Co.	440	No. 50.	drift	Beryl
193	Fourth	Abrams Creek Coal & Coke Co.	430	No. 51.	drift	Beryl
194	Fourth	Piedmont Brick & Coal Co.	431	Oakmont	drift	Oakmont
195	Fourth	Piedmont & Potomac Coal Co.	432	i Karr	drift	Piedmont
196	Fourth	Masteller Coal Co.	433	Virginia	drift	Cumberl'd, Md.
197	Fourth	Masteller Coal Co.	445	Hampshire	drift	Keyser
198	Fourth	Smith Coal Co.	435	New Creek	drift	Blaine
199	Fourth	Western Maryland Coal Co.	446	Smith	drift	Grafton
200	Fourth	Western Maryland Coal Co.	447	Blaine No. 2.	drift	Grafton
				Blaine No. 3.	drift	Grafton

oFourth District—John A. Springer, Inspector. a Abandoned.
s Successors to Cecil Coal & Coke Co. i Idle since March, 1908.
e Expect to ship coal about November 1, 1909.
v Idle since March, 1908.

*NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness, Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
T. R. Barber	J. W. Watkins	Up. Fr'pt.	5-0	nat. & furn.	202	151
T. R. Barber	J. W. Watkins	Up. Fr'pt.	5-0	fan		152
T. R. Barber	J. W. Watkins					153
B. H. Reed, (rec'vr)		Up. Fr'pt.	4-0	fan & nat.		154
W. B. Edwards		Up. Er'pt.	4-6	furnace	100	155
R. M. Hite	Alf Fortney	Up. Fr'pt.	4-4	furnace	10	156
J. M. Orr	F. E. Dawson	Up. Fr'pt.	4-4	fan	80	157
John Humphries	John Humphries	Lo. Kit'g.	5-6	fan	55	158
		Up. Fr'pt.	4-6	fan		159
J. B. Hanford	Jos. Hanford	Up. Fr'pt.	4-0	fan	112	160
J. B. Hanford	R. R. Beveridge	Up. Fr'pt.	4-0	2 fans	103	161
J. B. Hanford	R. R. Beveridge	Up. Fr'pt.	4-0	fan		162
J. B. Hanford	Jos. Hanfor, Jas. Martin	Up. Fr'pt.	4-0	fan	51	163
Eberhart Bierer	D. B. Davis	Up. Fr'pt.	4-2	fan	70	164
E. J. Fahey	John P. McGraw	Pittsburg	7-0	furnace	72	165
J. W. Davidson	G. R. W. Johnson	Pittsburg	9-0	fan	60	166
L. B. Brydon		Pittsburg	8-0	natural		167
W. B. Wolf	Wm. Drainer	Pittsburg	6-8	furnace	50	168
J. J. Malloy	Oliver Jenkins	Pittsburg	7-0	fan	61	169
James Starford	Oliver McIntire	Pittsburg	7-0	furnace	149	170
Geo. S. Brackett	August Ricker	Pittsburg	6-6	} 3 fan		171
Geo. S. Brackett	August Ricker	Pittsburg	6-6			172
Geo. S. Brackett	August Ricker	Pittsburg	6-6		65	173
Geo. S. Brackett	August Ricker	Pittsburg	6-6			174
Geo. S. Brackett	August Ricker	Pittsburg	6-6			175
M. H. Liston	W. H. Hughes	Mahoning	3-6	furnace	10	176
M. H. Liston	W. H. Hughes	Lo. Fr'pt.	4-6	fan	6	177
H. G. Smith	H. G. Smith	Pittsburg	7-6	natural	38	178
Thos. Williams	Geo. Moffatt	Up. Fr'pt.	5-0	fan	3	179
J. F. Johnson	J. A. Williams	Up. Fr'pt.	4-0	air shaft	5	180
W. J. Christopher	M. V. Manley	Up. Kit'g.	5-6	fan	172	181
R. D. Waddell	R. D. Waddell	Lo. Kit'g.	7-0	fan	29	182
John Jose	C. C. Chenoweth	Up. Fr'pt.	4-6	furnace	12	183
Robt. Grant	Foster Wilson	Pittsburg	12-0	fan	39	184
Robt. Grant	J. E. Ott	Pittsburg	12-0	natural	134	185
Robt. Grant	B. S. Coleman	Tyson	5-0	furnace	43	186
Robt. Grant	F. C. Patton	Up. Fr'pt.	4-2	fan	58	187
Robt. Grant	J. W. Kilroy	Up. Fr'pt.	4-2	furnace	14	188
Robt. Grant	L. D. Vaughan	Up. Fr'pt.	4-2	fan	42	189
O. Tibbetts	J. A. Tibbetts	Lo. Kit'g.	5-8	fan	75	190
O. Tibbetts	J. A. Tibbetts	Bakerst'n	4-0	fan	39	191
O. Tibbetts	J. A. Tibbetts	Bakerst'n	4-0	fan	44	192
F. H. Tibbetts	F. H. Tibbetts	Up. Fr'pt.	4-6	fan	52	193
		Lo. Kit'g.	5-8	natural		194
J. W. P. Sommerville	J. L. Brown	Lo. Kit'g.	5-0	fan	8	195
M. Masteller	Frank Harshbarger	Elk Lick	4-0	fan	51	196
M. Masteller	Frank Harshbarger	Lo. Kit'g.	5-0	fan		197
R. A. Smith	Jno. Rowland	Lo. Kit'g.	4-0	fan		198
S. B. Brydon	F. J. Bell	Lo. Kit'g.	4-0	air shaft	10	199
S. B. Brydon	F. J. Bell	Lo. Kit'g.	4-0	air shaft	7	200

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Mineral County—Con't.</i>						
201	Fourth.	Western Maryland Coal Co.	548	Blaine No. 4	drift	Grafton
202	Fourth.	Gleason Coal & Coke Co.	436-7	Gleason Nos. 1 & 2	2 drifts	Dodson, Md.
203	Fourth.	Big Vein Coal Co. of W. Va.	441	Four-foot	drift	Shaw
204	Fourth.	Denman Coal Co.	443	Denman No. 3	drift	Emoryville
205	Fourth.	Glade Run Coal & Coke Co.	444	Sarah	drift	Schell
206	Fourth.	Emory Run Coal Co.	449	Emory Run No. 1	drift	Emoryville
<i>Randolph County.</i>						
207	Fourth.	Davis Coal & Coke Co.	401	Weaver No. 1	drift	Weaver
208	Fourth.	Davis Coal & Coke Co.	402	Weaver No. 2	drift	Weaver
209	Fourth.	Davis Coal & Coke Co.	403	a Leifer No. 5	drift	Weaver
210	*Fourth.	Davis Colliery Co.	404	Coalton No. 1	drift	Elkins
211	Fourth.	Davis Colliery Co.	406	Sivad No. 2	drift	Elkins
212	Fourth.	Davis Colliery Co.	407	Harding No. 3	drift	Elkins
213	Fourth.	Davis Colliery Co.	408	Harding No. 5	d.ift	Elkins
214	Fourth.	W. H. Greene (Lessee)	405	Klondyke	drift	Mable
<i>Tucker County.</i>						
215	Fourth.	Cumberland Coal Co.	410	Douglas No. 1	drift	Albert
216	Fourth.	Cumberland Coal Co.	409	Douglas No. 4	drift	Albert
217	Fourth.	Cumberland Coal Co.	409	Douglas No. 5	drift	Albert
218	Fourth.	Davis Coal & Coke Co.	413	Thomas No. 23	drift	Thomas
219	Fourth.	Davis Coal & Coke Co.	412	Pendleton Run	drift	Thomas
220	Fourth.	Davis Coal & Coke Co.	411	Thomas No. 25	drift	Thomas
221	Fourth.	Davis Coal & Coke Co.	416	Coketon No. 26	drift	Thomas
222	Fourth.	Davis Coal & Coke Co.	414	Thomas No. 34	shaft	Thomas
223	Fourth.	Davis Coal & Coke Co.	418	Coketon No. 35	drift	Thomas
224	Fourth.	Davis Coal & Coke Co.	415	Coketon No. 36	drift	Thomas
225	Fourth.	Davis Coal & Coke Co.	417	Coketon No. 37	drift	Thomas
226	Fourth.	Beacon Coal & Coke Co.	419	Beacon	drift	Davis
227	Fourth.	Gatzmer Coal & Coke Co.	420	Gatzmer No. 1	drift	Dobbin
<i>Braxton County.</i>						
228	+Fifth	Davis Colliery Co.	580	Bower No. 10	4 drifts	Elkins
229	Fifth	Davis Colliery Co.	581	Copen No. 11	drift	Elkins
230						
231		<i>Gilmer County.</i>				
232	Fifth	Cosmopolitan Coal & C. Co.	582	Gilmer No. 1	drift	Emert
233						
234		<i>Mason County.</i>				
235	Fifth	Mason City Coal Mining Co.	504	Klondike	drift	Mason
236	Fifth	Mason City Coal Mining Co.	503	Linden	drift	Mason
237	Fifth	Consumers C. & Min. Co.	507	Camden	drift	Spilman
238	Fifth	Beech Grove Coal Co.	506	Beech Grove	drift	Mason
239	Fifth	The Liverpool Salt & C. Co.	502	Jackson	drift	Hartford
240	Fifth	Hartford Coal & Min. Co.	501	Hartford	slope	Hartford
241	Fifth	Dixie Coal Works	505	Dixie	drift	Mason
<i>Putnam County.</i>						
242	Fifth	Plymouth Coal & Min. Co.	509	Plymouth	drift	Plymouth
243	Fifth	Plymouth Coal & Min. Co.	510	Manilla	drift	Plymouth
244	Fifth	Plymouth Coal & Min. Co.	511	California	drift	Plymouth
245	Fifth	Alpha Coal Mining Co.	517	Alpha	drift	Plymouth
246	Fifth	The Otto Marmet C. & M. Co.	514	Big Otto No. 1	drift	Raymond City
247	Fifth	The Otto Marmet C. & M. Co.	515	Big Otto No. 2	drift	Raymond City
248	Fifth	The Otto Marmet C. & M. Co.	516	Big Otto No. 3	drift	Raymond City
249	Fifth	Black Betsey Coal & M. Co.	512	No. 1	drift	Black Betsey
250	Fifth	Black Betsey Coal & M. Co.	513	No. 2	drift	Black Betsey
251	Fifth	Oak Forest Coal & M. Co.	508	Oak Forest	drift	Winfield
252	Fifth	Big Hurricane Coal Co.	583	Hurricane		Winfield

* Fourth District—John A. Springer, Inspector.

+ Fifth District—Earl A. Henry, Inspector.

a Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
S. B. Brydon	F. J. Bell	Lo. Kit'g.	4-0	air shaft	9	201
Jno. M. Davis	R. Stottlemeyer	Lo. Kit'g.	6-8	fan	48	202
O. L. Ball	Wm. Broodwaters	Four foot	2-4	fan	21	203
Thomas Taylor	D. S. Seaman	Up. Fr'pt.	4-6	furnace	20	204
T. A. Fleming		Up. Kit'g.	3-2	furnace	7	205
O. D. Davis		Bakerst'n	3-0	furnace	6	206
W. W. Brewer	Harley Davis	Lo. Kit'g.	9-0	fan	111	207
W. W. Brewer	G. W. Burk	Lo. Kit'g.	9-0	fan	82	208
F. C. Cornay	W. F. Riley	Up. Fr'pt.	7-0	fan	130	210
J. F. Healy, G. M.		Up. Fr'pt.	7-0	furnace	16	211
W. S. Wilson	W. Martin	Up. Fr'pt.	6-6	fan	90	212
Jos. Haylman	Jos. Haylman	Up. Fr'pt.	6-6	furnace	8	213
W. H. Green	W. H. Green	Up. Fr'pt.	8-0	furnace	5	214
J. B. Jenkins	Richard Jenkins	M & L Kitg	11-0	fur.&stack	77	215
J. B. Jenkins	A. J. Jenkins	M & L Kitg	11-0	fan	154	216
J. B. Jenkins	A. J. Jenkins	M & L Kitg	11-0	fan	217	217
L. S. McDowell	W. F. Reeves	Up. Fr'pt.	7-0	fan	194	218
L. S. McDowell	W. B. Riggleman	Up. Fr'pt.	7-0	fan	219	219
L. S. McDowell	W. H. Riggleman	Up. Fr'pt.	6-0	fan	170	220
M. L. Garvey	James Lake	Up. Fr'pt.	5-0	fan	65	224
L. S. McDowell	Sam Hawkshaw	Lo. Kit'g	6-0	fan	94	222
M. L. Garvey	James Christopher	Lo. Kit'g	5-6	fan	50	223
M. L. Garvey	James Christopher	Lo. Kit'g	5-6	fan	160	224
M. L. Garvey	P. J. Brennan	Lo. Kit'g	5-6	fan	96	225
W. C. Patterson	Alex Close	Lo. Kit'g	8-0	fan	37	226
A. G. Waddell	A. G. Waddell	Lo. Kit'g	7-6	furnace	3	227
R. D. Edwards	W. Riggs	Pittsburg	6-0	fan	80	228
R. D. Edwards	Geo. Montoney	Pittsburg	5-6	furnace	11	229
C. L. Gandy	Chas. Conrad	Pittsburg	6-6	furnace	28	230
C. J. Ryan	Wm. Shawhan	Pgh. No. 8	4-8	fan	73	231
C. J. Ryan	Wm. Shawhan	Pgh. No. 8	4-8	fan	27	232
M. G. Tyler	James Smith	Pgh. No. 8	4-0	fan	41	233
J. Icenhower	J. F. Icenhower	Pgh. No. 8	5-0	natural	41	234
H. F. Smith	Samuel Edmunds	Pgh. No. 8	4-8	fan	32	235
A. C. Blowers	D. K. Harrison	Pgh. No. 8	4-8	fan	34	236
G. H. Gress	B. Phillips	Pgh. No. 8	4-6	furnace	30	237
W. C. Mitchell	Joseph Virgin	Pittsburg	5-0	fan	20	238
W. C. Mitchell	Joseph Virgin	Pittsburg	5-0	fan	83	239
W. C. Mitchell	Joseph Virgin	Pittsburg	5-0	fan	96	240
J. C. Fish	James Hargraves	Pittsburg	4-0	fan	10	241
Edward Schonebaum	Andrew Utt, Robert Fields	Pittsburg	6-0	fan	246	242
Edward Schonebaum	Robert Fields	Pittsburg	6-0	fan	290	243
Edward Schonebaum	Robert Fields	Pittsburg	6-0	fan	248	244
C. L. Trippett	J. W. Hargraves and L. W. Travellan	Pittsburg	5-8	fan	268	245
C. L. Trippett	L. W. Travellan	Pittsburg	5-8	fan	250	246
D. L. Thomas	W. L. Thomas	Pittsburg	4-0	fan	27	247
J. P. Knight, G. M.	Wm. Thomas	?	3-0	air shaft	5	248

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	NAME OF COMPANY.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Clay County.</i>						
253	Fifth	Dorfee Coal Mining Co.	578	iElk Manor	drift	Dorfee
254	Fifth	Elk River C. & Lumber Co.	579	Dundon	drift	Clay
255	†Seventh	Carter Coal Co.	777	Carter	drift	Scotford
256	Seventh	Kentucky C. & Lumber Co.	778	iScott	drift	Cambria
<i>Fayette County.</i>						
257	†Fifth	Sunday Creek Co.	564	No. 111	drift	Longacre
258	Fifth	Sunday Creek Co.	565	No. 112	drift	Longacre
259	Fifth	Sunday Creek Co.	566	No. 114	2 drifts	Longacre
260	Fifth	Sunday Creek Co.	568	No. 115	drift	Longacre
261	Fifth	The Columbus Iron & S. Co.	569	No. 1	drift	Marting
262	Fifth	Kanawha Gas Coal Co.	570	Kanawha Gas	drift	Smithers
263	Fifth	Kanawha Gas Coal Co.	572	Eagle	drift	Smithers
264	Fifth	W. R. Johnson & Co.	571	Oakland	drift	Smithers
265	Fifth	Boomer Coal & Coke Co.	573	No. 1	drift	Boomer
266	Fifth	Boomer Coal & Coke Co.	574	No. 2 North	drift	Boomer
267	Fifth	Boomer Coal & Coke Co.	575	No. 2 South	drift	Boomer
268	Fifth	Boomer Coal & Coke Co.	576	No. 3	drift	Boomer
269	†Seventh	Paint Creek Collieries Co.	735	Hickory Camp	drift	Mucklow
270	Seventh	Eureka Colliery Co.	738	Eureka No. 13	drift	Donwood
271	Seventh	Eureka Colliery Co.	739	Eureka No. 14	drift	Donwood
272	Seventh	W. R. Johnson	740	Eagle No. 1	drift	Crescent
273	Seventh	W. R. Johnson	741	Splint No. 5	drift	Crescent
274	Seventh	W. R. Johnson	741	Splint No. 6	drift	Crescent
275	Seventh	Mecca Coal & Coke Co.	736	Mecca No. 2	drift	Montgomery
276	Seventh	Mecca Coal & Coke Co.	737	Mecca No. 5	drift	Montgomery
277	Seventh	The Carver Bros. Co.	742	No. 2	drift	Eagle
278	Seventh	The Carver Bros. Co.	743	No. 3	drift	Eagle
279	Seventh	The Carver Bros. Co.	744	iNo. 1	drift	Eagle
280	Seventh	The Carver Bros. Co.	745	iEagle	drift	Eagle
281	Seventh	The Carver Bros. Co.	745	iCalifornia	drift	Eagle
282	Seventh	The Carver Bros. Co.	746	No. 5 Splint	drift	Eagle
283	Seventh	The Carver Bros. Co.	747	Diamond	5 drifts	Eagle
284	Seventh	St. Clair Colliery Co.	748	St. Clair No. 1	drift	Eagle
285	Seventh	St. Clair Colliery Co.	749	iSt. Clair No. 2	drift	Eagle
286	Seventh	M. B. Coal Co.	750	c Kimberly No. 3	2 drifts	Kimberly
287	Seventh	M. B. Coal Co.	751	c Columbia	drift	Kimberly
288	Seventh	M. B. Coal Co.	752	Columbia No. 5	drift	Kimberly
289	Seventh	M. B. Coal Co.	753	Elk Ridge No. 1	drift	Elk Ridge
290	Seventh	M. B. Coal Co.	754	Elk Ridge No. 2	drift	Elk Ridge
291	Seventh	The Mt. Carbon Co., Lt'd.	755	Vulcan	drift	Powellton
292	Seventh	Great Kanawha Colliery Co.	757	Brewster	drift	Mt. Carbon
293	Seventh	Great Kanawha Colliery Co.	758	Digby	drift	Mt. Carbon
294	Seventh	Great Kanawha Colliery Co.	756	Edwards	drift	Mt. Carbon
295	Seventh	Loup Creek Colliery Co.	759	Ansted	drift	Page
296	Seventh	Loup Creek Colliery Co.	760	Eagle	drift	Page
297	Seventh	Herbert Collieries	761	Herberton	drift	Herberton
298	Seventh	Fort Defiance, C. & C. Co.	762	Fort Defiance	drift	Gauley Ridge
299	Seventh	Lynchburg Colliery Co.	763	Lynchburg	drift	Vaneta
300	Seventh	Gamoca Coal Co.	764	No. 2 Gas	drift	Gamoca
301	Seventh	Gamoca Coal Co.	765	No. 5 Splint	drift	Gamoca
302	Seventh	Dietz Colliery Co.	766	Dietz No. 2 Gas	drift	Wyndal
303	Seventh	Dietz Colliery Co.	767	Dietz No. 5 Splint	drift	Wyndal
304	eEighth	Mill Creek Colliery Co.	801	Mill Creek	drift	Ansted
305	Eighth	The Gauley Mtn. Coal Co.	802	Nova Scotia	drift	Ansted
306	Eighth	The Gauley Mtn. Coal Co.	808	Turkey Creek	drift	Ansted
307	Eighth	Croft & Evans	804	iPine Top	drift	Ansted
308	Eighth	Croft & Evans	805	iSignal Knob	drift	Ansted
309	Eighth	Gaymont Colliery Co.	806	Gaymont	drift	Elmo
310	Eighth	Sunbury Coal & Coke Co.	807	Sunny Side	drift	Elmo
311	Eighth	Benry-New River Coal Co.	808	Elmo	drift	Elmo
312	Eighth	Michigan Coal Co.	809	Michigan	drift	Fayette
313	Eighth	Man'f'rs & Con's'rs Coal Co.	810	Newlyn	drift	Fayette

†Fifth District—Earl A. Henry, Inspector. †Seventh District—Wm. Warren, Inspector.
e Eighth District—J. A. Straughan, Inspector until March 31, 1909.
i Idle all year. c Closed down March 31, 1908.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
Henry Brooke		Winifrede	5-0	fan		253
L. C. Bierne	B. F. Dorsey	Stockton	3-0	fan	51	254
Wm. Tomplin	Len Arthur	Coalburg	4-4	furnace	30	255
		Coalburg	5-6	furnace		256
W. F. Mandt	C. E. Thrush	No. 2 Gas.	5-6	fan	177	257
W. F. Mandt	Lee Jenkins	No. 2 Gas.	5-0	fan	191	258
W. F. Mandt	John Dufour	No. 2 Gas.	5-4	2 fans	134	259
W. F. Mandt	Robert Fleeman	No. 2 Gas.	6-0	fan	170	260
J. H. Fergusson	G. E. Sanford	No. 2 Gas.	5-4	fan	89	261
T. A. Bartlam	Samuel Mitchell	No. 2 Gas.	5-8	fan	70	262
T. A. Bartlam	Samuel Mitchell	Eagle	4-0	fan	19	263
T. A. Bartlam	B. Hill	No. 2 Gas.	5-4	fan	69	264
W. M. Gillie	Henry Deems	No. 2 Gas.	5-6	fan	201	265
W. M. Gillie	Bud Hayslett	No. 1 Gas.	5-9	fan	262	266
W. M. Gillie	Charles Duncan	No. 1 Gas.	5-9	fan	219	267
W. M. Gillie	John Elswick	No. 2 Gas.	5-6	fan	219	268
Frank Kearnes	R. F. Townsend	Eagle	6-6	fan	53	269
John Nugent	John Dume	No. 2 Gas.	4-0	fan	14	270
John Nugent	John Dume	No. 5 Spl't	5-6	fan	73	271
		No. 5 Spl't	6-0	fan	42	272
T. A. Bartlam	Joe Bartlam	Eagle	3-6			
T. A. Bartlam	H. Webster	No. 5 Spl't	6-0	natural	50	273
T. A. Bartlam	H. Webster	No. 6 Spl't	4-6	fan	20	274
John Carver	J. W. Armentrout	No. 2 Gas.	4-6	fan	63	275
John Carver	E. Forbes	No. 5 Spl't	7-0	fan	49	276
J. H. Jackson	John E. Carver	No. 2 Gas.	4-10	fan	78	277
J. H. Jackson	John E. Carver	No. 2 Gas.	4-10	fan		278
		Eagle	4-0	fan		279
		Eagle	4-0	} fan		280
		Eagle	4-0			281
J. H. Jackson	A. B. Phillips	No. 5 Spl't	6-0	natural	29	282
James E. Carver	Ed. Forbes	No. 2 Gas.	5-0	2 fans	99	283
L. W. Atkinson	H. O. Young	Eagle	4-10	fan	45	284
L. W. Atkinson	H. O. Young	No. 2 Gas.	5-0	fan		285
		No. 2 Gas.	7-0	fan		286
		No. 2 Gas.	4-6	fan		287
C. C. Sharp	Walter Gill	No. 5 Spl't	5-10	furnace	23	288
C. C. Sharp	L. Hornsby	Powell't'n.	6-0	fan	75	289
C. C. Sharp	Lem Payne	Powell't'n.	6-2	fan	44	290
D. T. Evans	J. S. Wiseman	Powell't'n.	6-0	fan	88	291
John Nugent	John Eads	No. 2 Gas.	4-4	natural	29	292
John Nugent	John Eads	No. 2 Gas.	4-8	fan	29	293
John Nugent	John Eads	Eagle	2-10	fan	30	294
J. C. R. Taylor, G. Mgr	D. S. Dooley	No. 2 Gas.	9-7	fan	300	295
J. C. R. Taylor, G. Mgr	D. S. Dooley	Eagle	5-8	furnace		296
John Connell	J. F. Maynn	Eagle	3-0	furnace	105	297
T. R. Ragland	Jesse Blake	No. 2 Gas.	4-6	furnace	46	298
T. A. Deitz	J. C. Grissinger	No. 2 Gas.	3-10	furnace	105	299
J. M. Campbell	J. M. Campbell	No. 5 Spl't	5-6	fan	90	300
J. M. Campbell	J. M. Campbell	No. 2 Gas.	4-0	fan		301
T. A. Deitz	L. D. Moran	No. 2 Gas.	3-8	furnace	29	302
T. A. Deitz	L. D. Moran	No. 5 Spl't	5-6	furnace	47	303
W. H. Evans	R. H. Massey	*Sewell	3-0	fan	39	304
R. C. Taylor	J. A. Martin	No. 2 Gas.	5-0	} 3 fans	270	305
R. C. Taylor	J. A. Martin	No. 2 Gas.	5-0			306
		No. 2 Gas.	5-0	natural		307
		No. 2 Gas.	5-0	natural		308
James Ralsbeck		Sewell	2-9	fan	6	309
James Ralsbeck	C. McAtee	Sewell	2-10	fan	46	310
James Ralsbeck	John Robertson	Sewell	3-0	fan	18	311
J. D. Boone	C. E. Sims	*Nuttall	3-0	furnace	67	312
P. H. Henry	J. W. Sims	Sewell	3-0	fan	90	313

*Sewell and Nuttall means the same coal bed.

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Fayette County—Con't</i>						
314	Eighth.	The Fayette Coal & C. Co.	811	Fayette	drift	Fayette
315	Eighth.	Brown Coal Co.	852	Brown	drift	Nuttallburg
316	Eighth.	Nuttallburg Collieries Co.	812	Nuttallburg	drift	Nuttallburg
317	Eighth.	Nuttallburg Collieries Co.	812a	Keeney's Creek	drift	Nuttallburg
318	Eighth.	Holliday Coal Co.	813	Keeney	drift	Edmond
319	Eighth.	Keeney's Creek Colliery Co.	817	Smokeless	drift	Winona
320	Eighth.	Keeney's Creek Colliery Co.	814	Boone	drift	Bcone
321	Eighth.	Ballinger Coal Co.	816	Ballinger No. 1	drift	Nuttallburg
322	Eighth.	Ballinger Coal Co.	815	Ballinger No. 2	drift	Nuttallburg
323	Eighth.	Rothwell Coal Co.	818	Dubree	drift	Dubree
324	Eighth.	Blume Coal & Coke Co.	820	Blume	drift	Lookout
325	Eighth.	Lookout Coal & Coke Co.	821	Lookout	drift	Lookout
326	Eighth.	Mosely & Walker	822	No. 1	drift	Cliff Top
327	Eighth.	Mosely & Walker	823	No. 2	drift	Cliff Top
328	Eighth.	Mosely & Walker	824	No. 3	drift	Cliff Top
329	Eighth.	Fire Creek Coal & C. Co.	827	Fire Creek	drift	Fire Creek
330	Eighth.	Fire Creek Coal & C. Co.	828	Buffalo Nos. 1 & 2	2 drifts	Fire Creek
331	Eighth.	Beury Bros. Coal & C. Co.	830	Echo	drift	Beury
332	Eighth.	Big Bend Coal Co.	831	Big Bend	drift	Dimmock
333	Eighth.	Stone Cliff Coal & C. Co.	832	Stone Cliff	drift	Stone Cliff
334	Eighth.	Beechwood Coal & C. Co.	833	No. 1	drift	Claremont
335	Eighth.	Beechwood Coal & C. Co.	834	No. 2	drift	Claremont
336	Eighth.	Alaska Coal & Coke Co.	835	Alaska	drift	Claremont
337	Eighth.	Ephraim Creek C & C. Co.	836	Buffalo	drift	Thayer
338	Eighth.	Ridgeview Coal Co.	837	Ridgeview	drift	Thayer
339	Eighth.	Export Coal Co.	838	Export	drift	Charleston
340	Eighth.	Laurel Creek Coal Co.	839	Laurel	drift	Laurel Creek
341	Eighth.	Glendale Colliery Co.	840	Glendale	drift	Lawton
342	Eighth.	Quinnimont Coal Co.	841	Big Q	2 drifts	Quinnimont
343	Eighth.	Greenwood Coal Co.	843	Greenwood	2 drifts	Lawton
344	Eighth.	Hemlock Hollow C. & C. Co.	844	Hemlock	drift	Lawton
345	Eighth.	New R. & Poca, Cons. C. Co.	845 67	Layland	3 drifts	Gentry
346	Eighth.	New R. & Poca, Cons. C. Co.	861	Minden No. 1	drift	Minden
347	Eighth.	New R. & Poca, Cons. C. Co.	862	Minden No. 2	drift	Minden
348	Eighth.	New R. & Poca, Cons. C. Co.	863	Minden No. 3	drift	Minden
349	Eighth.	New R. & Poca, Cons. C. Co.	864	Minden No. 4	drift	Minden
350	Eighth.	New R. & Poca, Cons. C. Co.	865	Minden No. 5	drift	Minden
351	Eighth.	New River Valley Coal Co.	848	Bachman	drift	Fayette
352	Eighth.	Marrs Branch Coal Co.	849	Whitney	drift	Fayette
353	Eighth.	Low Moor Iron Co. of Va.	851	Kaymoor No. 1	drift	Kaymoor
354	Eighth.	Low Moor Iron Co. of Va.	859	Kaymoor No. 2	drift	Kaymoor
355	Eighth.	Elverton Coal & C. Co.	853	Elverton	drift	Elverton
356	Eighth.	South Side Co.	854	South Side	drift	Caperton
357	Eighth.	The Thurmond Coal Co.	859	No. 1 Concho	drift	Concho
358	Eighth.	The Thurmond Coal Co.	860	No. 2 Erskine	drift	Erskine
359	Eighth.	The New River Colls. Co.	855	i Cunard	drift	Sewell
360	Eighth.	The New River Colls. Co.	856	Brooklyn	drift	Finlow
361	Eighth.	The New River Colls. Co.	857	Red Ash	drift	Fire Creek
362	Eighth.	The New River Colls. Co.	858	Rush Run	2 drifts	Rush Run
363	n Ninth.	The New River Colls. Co.	923	Sun No. 1	slope	Sun
364	Ninth.	The New River Colls. Co.	924	Sun No. 2	shaft	Sun
365	Ninth.	The New River Colls. Co.	925	Sun No. 3	slope	Sun
366	Ninth.	The Dungen Coal Co.	901	Dungen No. 1	drift	Thurmond
367	Ninth.	The Dungen Coal Co.	902	Dungen No. 2	drift	Thurmond
368	Ninth.	Newlyn Coal Co.	903	Newlyn	5 drift	Newlyn
369	Ninth.	Meadow Fork Coal Co.	904	Meadow Fork	drift	Newlyn
370	Ninth.	The Star Coal & Coke Co.	911	Star	drift	Red Star
371	Ninth.	Laura Mining Co.	907	Laura	drift	Glen Jean
372	Ninth.	Nichol Colliery Co.	922	Nichol	drift	Glen Jean
373	Ninth.	McKell Coal & Coke Co.	926	Derryhale	drift	Glen Jean
374	Ninth.	McKell Coal & Coke Co.	934	Kilsyth	drift	Glen Jean
375	Ninth.	Harvey Coal & Coke Co.	905	Harvey No. 1	drift	Harvey
376	Ninth.	Harvey Coal & Coke Co.	906	Harvey No. 2	drift	Harvey
377	Ninth.	Prudence Coal Co.	908	Prudence	drift	Prudence

e Eighth District.—J. A. Straughan, Inspector until March 31, 1909.

n Ninth District.—John Phillips, Inspector until April 30, 1909.

a Abandoned. i Idle all year.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
E. G. Blume	L. D. Rhodes	Sewell	3-0	furnace	45	314
J. A. Boone	A. R. Jones	Sewell	3-10	2 fans	139	315
C. D. Kirkpatrick	J. R. Fraser	Sewell	4-0	fan	106	316
C. D. Kirkpatrick	J. R. Fraser	Sewell	4-0	fan		317
C. McHolliday	C. W. Jones	Sewell	3-8	fan	46	318
Lee Long	Thomas Seacrist	Sewell	3-10	fan	114	319
Lee Long	Charles Higgins	Sewell	3-10	fan	66	320
George Holland	John Ohlinger	Sewell	3-8	fan & fur	84	321
George Holland	Fred Ohlinger	Sewell	3-8	natural	9	322
W. H. Rothwell	M. H. Blythe	Sewell	3-8	fan	50	323
D. W. Boone	J. A. McAllister	Sewell	3-8	fan	120	324
D. W. Boone	J. A. McAllister	Sewell	4-0	fan	51	325
R. L. Walker	W. L. Herndon	Sewell	3-0	furnace	24	326
R. L. Walker	W. L. Herndon	Sewell	3-0	furnace	9	327
R. L. Walker	W. L. Herndon	Sewell	3-2	fan	90	328
H. H. Blackburn	Charles Chamberlain	Fire Creek	3-6	fan	80	329
H. H. Blackburn	Charles Chamberlain	Fire Creek	3-6	fan		330
H. B. Berry	Peter Wolf	Fire Creek	4-0	fan	75	331
J. H. Dempsey	O. C. Wiseman	Fire Creek	3-0	fan	23	332
J. H. Dempsey	G. D. McDaniel	Fire Creek	3-6	fan	54	333
E. L. Hawley	R. B. Hanna	Fire Creek	4-6	fan	104	334
E. L. Hawley	R. B. Hanna	Fire Creek	4-6	fan	58	335
George Lawton	S. M. Peters	Fire Creek	4-0	fan	32	336
Robert Watson	Richard Clyde	Fire Creek	3-6	3 fans	184	337
J. H. Dempsey	John Harris	Fire Creek	3-0	fan	39	338
E. E. Huddleston	C. A. Parcell	Fire Creek	3-0	fan	40	339
J. W. Lawton	J. W. Whitlock	Fire Creek	4-0	fan	58	340
C. B. Helwig	J. E. Lesuer	Fire Creek	4-0	natural	57	341
J. C. Gallandt	Ed. Gordon	Fire Creek	4-0	fan	75	342
Wm. A. Brown	Hen. Peters, J. H. Wood	Fire Creek	4-0	fan	100	343
J. A. Brown	D. S. Brown	Fire Creek	4-0	fan	110	344
H. M. Bertolet	L. Nahodil	Fire Creek	4-0	fan	255	345
J. Clapperton, Jr.	Ben Titlow	Fire Creek	4-0	fan	26	346
J. Clapperton, Jr.	H. S. Wood	Sewell	4-0	2 fans	190	347
J. Clapperton, Jr.	W. H. Steen	Sewell	4-0	2 fans	165	348
J. Clapperton, Jr.	T. S. Askey	Sewell	4-0	fan	153	349
J. Clapperton, Jr.	John Lindley	Sewell	4-0	fan	154	350
Jas. D. Boone	L. F. Hess	Nuttall	3-6	furnace	11	351
Jas. D. Boone	D. A. Stull	Nuttall	3-0	furnace	10	352
Wm. Barrick	Joseph Shorthouse	Sewell	3-8	fan	184	353
Wm. Barrick	Joseph Shorthouse	Sewell	3-0	furnace	58	354
H. A. Mosely	R. O. Davenport	Sewell	3-4	fan	45	355
G. H. Caperton	Robert Boyd	Sewell	3-8	fan	106	356
Gilbert Smith	W. E. Morton	Sewell	4-0	fan	93	357
Gilbert Smith	T. G. Burke	Fire Creek	4-0	fan	45	358
James Martin		Sewell	4-0	natural		359
James Martin	A. S. Thompson	Sewell	4-6	fan	150	360
James Martin	Robert Wallace	Fire Creek	5-0	fan	151	361
James Martin	W. B. Nesbit	Fire Creek	5-6	fan	148	362
James Martin	Zack Evans	Sewell	5-4	fan	129	363
James Martin	Zack Evans	Sewell	5-4	fan	129	364
James Martin	Zack Evans	Sewell	5-4	fan	60	365
Thomas Boyd	Thomas Boyd	Sewell	4-5	fan	51	366
Thomas Boyd	Thomas Boyd	Sewell	4-5	furnace		367
H. P. Thomas	H. P. Thomas	Fire Creek	2-7	natural	22	368
Ed. Thomas	H. Meadows	Sewell	5-2	furnace	35	369
D. Evandoll	P. B. Evandoll	Sewell	5-0	fan	143	370
Thomas Nichol	Thomas Morgan	Sewell	5-6	fan	54	371
J. R. Sharpe	W. Whatkeys	Sewell	5-6	fan	84	372
T. A. Lewis	Sam Bryant	Sewell	5-6	fan	114	373
R. A. McClure	T. T. Lewis	Sewell	5-6	fan	312	374
John Clark	Ed. Jones	Sewell	4-4	fan	92	375
John Clark	Ed. Jones	Sewell	4-4	fan		376
J. N. Schweitzer	E. J. Robertson	Sewell	5-0	fan		377

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Fayette County—Con't.</i>						
378	Ninth	Prudence Coal Co.	909	Lyman	drift	Prudence
379	Ninth	Prudence Coal Co.	910	Jones	drift	Prudence
380	Ninth	Collins Colliery Co.	912	No. 1	drift	Glen Jean
381	Ninth	Collins Colliery Co.	913	No. 2	drift	Glen Jean
382	Ninth	White Oak Fuel Co.	914	Wingrove	shaft	Scarbrough
383	Ninth	White Oak Fuel Co.	915	Scarbrough	shaft	Scarbrough
384	Ninth	White Oak Fuel Co.	916	Whipple	shaft	Whipple
385	Ninth	White Oak Fuel Co.	917	Carlisle	shaft	Carlisle
386	Ninth	White Oak Fuel Co.	918	Oakwood	shaft	Carlisle
387	Ninth	Stuart Colliery Co.	919	Parral	shaft	Parral
388	Ninth	Stuart Colliery Co.	920	Beech Creek	drift	Parral
389	Ninth	Stuart Colliery Co.	921	Stuart	shaft	Stuart
390	Ninth	Dunn Loop Coal & C. Co.	927	Dunn Loop No. 1	drift	Dunnloop
391	Ninth	Dunn Loop Coal & C. Co.	928-9	Dunn Loop No. 1 & 2	drift	Dunnloop
392	Ninth	Macdonald Colliery Co.	931	Macdonald	drift	Macdonald
393	Ninth	Sugar Creek Coal & C. Co.	932	Sugar Creek	slope	Macdonald
394	Ninth	Price Hill Fuel Co.	935	Sherwood	shaft	Price Hill
395	Ninth	Turkey Knob Coal Co.	930	Turkey Knob	drift	Macdonald
396	Ninth	Mt. Hope Coal & C. Co.	933	Baby	drift	Mt. Hope
<i>Kanawha County.</i>						
397	Fifth	Falling Rock Cannel C. Co.	521	a Jones No. 1	drift	Weir
398	Fifth	Falling Rock Cannel C. Co.	522	Jones No. 2	drift	Weir
399	Fifth	Queen Shoals Coal Co.	523	Queen Shoals	drift	Queen Shoals
400	Fifth	Queen Coal Co.	524	Turner	drift	Heatherman
401	Fifth	The Elk Coal Co.	524	Turner	drift	Heatherman
402	Fifth	Pen Mar Mining Co.	520	Pen Mar	drift	Big Chimney
403	Fifth	The Clay Coal Co.	529	Bradley White Ash	drift	Barren Creek
404	Fifth	Harts Branch Coal Co.	528	i Harts Branch	drift	Queen Shoals
405	Fifth	Mill Creek Cannel Coal Co.	518	Mill Creek	drift	Villa
406	Fifth	Blue Creek Coal & Land Co.	530	Wills Hollow No. 1	drift	Blakely
407	Fifth	Blue Creek Coal & Land Co.	531	Wills Hollow No. 2	drift	Blakely
408	Fifth	Blue Creek Coal & Land Co.	532	Blakely No. 3	drift	Blakely
409	Fifth	Roderick Coal Co.	537	Roderick	drift	Quick
410	Fifth	Acme Steam Co.	538	Acme	drift	Quick
411	Fifth	Williams Coal Co.	539	Williams	drift	Blakely
412	Fifth	Kendalia Coal & Coke Co.	540	* Perbelkin No. 1	drift	Blakely
413	Fifth	Black Hawk Coal Co.	541	i Black Hawk	drift	Charleston
414	Fifth	The Campbells Cre'k C. Co.	542	No. 1	4 drifts	Dana
415	Fifth	Quincy Coal Co., Inc.	546	No. 1	drift	Quincy
416	Fifth	Quincy Coal Co., Inc.	547	No. 2	drift	Quincy
417	Fifth	Sunday Creek Co.	548	No. 101	drift	Cedar Grove
418	Fifth	Sunday Creek Co.	549	No. 104	drift	Cedar Grove
419	Fifth	Sunday Creek Co.	550	No. 105	drift	Cedar Grove
420	Fifth	Sunday Creek Co.	551	i No. 106	drift	Cedar Grove
421	Fifth	Sunday Creek Co.	552	i No. 108	drift	Cedar Grove
422	Fifth	Sunday Creek Co.	553	No. 109	drift	Cedar Grove
423	Fifth	The New Cedar Grove Coal & Brick Co.	554	Boyd	2 drifts	Cedar Grove
424	Fifth	Kellys Creek Colliery Co.	555	No. 1	drift	Ward
425	Fifth	Kellys Creek Colliery Co.	556	No. 3	drift	Ward
426	Fifth	Kellys Creek Colliery Co.	558	No. 4	drift	Ward
427	Fifth	Hughes Creek Coal Co.	559	Hugheston No. 2	drift	Hugheston
428	Fifth	Hughes Creek Coal Co.	560	Hugheston No. 3	drift	Hugheston
429	Fifth	Cannelton Coal Co.	561	Cannelton No. 2	drift	Cannelton
430	Fifth	The Marmet Coal Co.	562	Monarch No. 1	drift	Monarch
431	Fifth	The Marmet Coal Co.	563	Monbrech No. 2	drift	Monarch
432	s Sixth	The Marmet Coal Co.	612	s Butler	drift	Marmet
433	s Sixth	The Marmet Coal Co.	614	Butler No. 2	drift	Marmet
434	s Sixth	The Marmet Coal Co.	613	Butler No. 5	drift	Marmet
435	s Sixth	Olcott Coal & Iron Co.	603	Olcott No. 1	drift	Olcott

n Ninth District—John Phillips, Inspector until April 30, 1909.

s Sixth District—Bonner H. Hill, Inspector. i Idle all year.

a Abandoned. f Fifth District—Earl A. Henry, Inspector.

* Not yet in operation.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness, Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
J. N. Schweitzer	E. J. Robertson	Sewell	5-0.	fan	131	378
J. N. Schweitzer	E. J. Robertson	Sewell	5-0.	fan		379
R. C. Newman	J. W. Wedgewood	Sewell	5-0.	} fan	228	380
R. C. Newman	J. W. Wedgewood	Sewell	5-0.			381
John Holmes	John Holmes	Sewell	5-4.	fan	111	382
A. D. Callihan	R. Brabben	Sewell	4-6.	fan	125	383
Wm. Farrell	Sam Hale	Sewell	4-6.	fan	100	384
E. Cockburn	Wm. A. Jones	Sewell	4-0.	fan	105	385
E. Cockburn	Wm. A. Jones	Sewell	4-4.	fan	120	386
Evan Cockburn	John Powell	Sewell	4-2.	fan	94	387
Evan Cockburn	E. L. Watson	Eagle	3-7.	furnace	18	388
W. J. Heatherman	Isaac Pelter	Sewell	4-2.	fan	64	389
B. H. Morrison	John Ord	Sewell	5-6.	natural	20	390
B. H. Morrison	Andy Williams	Sewell	5-8.	fan & fur	134	391
W. R. Thurmond	George Buckley	Sewell	4-10.	fan	155	392
F. L. Ramsey	F. L. Ramsey	Sewell	5-6.	fan	105	393
E. Pinkney	Wm. Brabben	Sewell	4-11.	fan	67	394
H. B. Clarkson	J. E. Morton	Sewell	6-0.	fan	108	395
A. P. Bailey, Pres.		Sewell	6-0.	natural	2	396
R. B. Young	R. B. Young	Cannel	3-0.	fan		397
R. B. Young	R. B. Young	Cannel	3-0.	fan	22	398
W. R. Morris	George W. Miller	Mason or No. 5.	4-0.	furnace	31	399
A. H. Lee	C. G. Culley	Mason or No. 5.	4-0.	fan	44	400
W. R. Morris	T. L. Chandler	No. 5.	4-0.	fan	41	401
Jacob Householder	Jacob Householder	N. Coalb'g	4-4.	natural	8	402
George W. Gaghan	Henry Tucker	No. 5.	4-0.	furnace	52	403
		No. 5.	3-10.	furnace		404
R. W. Brunk	R. W. Brunk	Cannel	3-6.	fan	50	405
D. H. Morton	S. V. Elkins	No. 5.	4-6.	fan	48	406
D. H. Morton	S. V. Elkins	No. 5.	4-6.	fan	36	407
D. H. Morton	R. L. Miller	No. 5.	5-0.	fan	45	408
T. A. Leyshon	D. D. Williams	No. 5.	4-6.	fan	51	409
T. A. Leyshon	D. D. Williams	No. 5.	4-6.	fan	15	410
S. B. Williams	Wm. Hornby	No. 5.	4-0.	furnace	16	411
		No. 5.	4-0.			412
		Coalburg	5-0.	natural		413
W. V. Rensford	Andrew Calderwood	No. 5.	5-0.	2 fans	213	414
J. L. Dickinson	F. C. Morris	Coalburg	4-6.	fan	17	415
J. L. Dickinson	J. M. Kelley	No. 5.	5-6.	fan	40	416
J. W. Taylor	J. A. Neylor	No. 5.	5-6.	fan	110	417
J. W. Taylor	Wm. Martin	Coalburg	4-10.	fan	98	418
J. W. Taylor	Wm. Welsch	Coalburg	5-0.	fan	171	419
		No. 5.	5-0.	fan		420
		Coalburg	5-0.	fan		421
J. W. Taylor	D. B. Ross	No. 5.	5-9.	fan	83	422
Thomas Boyd	Thomas Boyd	Cd'r Gr'Ve	2-9.	furnace	24	423
H. T. Smarr	H. E. Taylor	Coalburg	4-6.	fan	93	424
H. T. Smarr	H. E. Taylor	Coalburg	5-8.	fan	158	425
H. T. Smarr	H. E. Taylor	Coalburg	5-8.	fan		426
J. W. Moore	John Nugen	Coalburg	4-6.	fan	189	427
J. W. Moore	John Rhodes	Coalburg	4-6.	fan		428
Langdon Lee	Neil McCafferty	No. 2 Gas.	7-0.	fan	136	429
R. T. Price	Charles King	C'dr Gr'Ve	3-2.	fan	86	430
R. T. Price	Charles King	C'dr Gr'Ve	3-2.	fan		431
R. T. Price	Sam Selby	Winifrede	4-6.	fan	25	432
R. T. Price	Joe Griffith	Lens Cr'k.	3-0.	fan	40	433
R. T. Price	John Shephard	No. 5.	6-0.	nat. & fur.	27	434
F. M. Palmer	George Carey	Bl'k Band	3-4.	4 fans	50	435

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Kanawha County—Cont.</i>						
436	Sixth	Olcott Coal & Iron Co.....	602	Olcott No. 2.....	drift	Olcott.....
437	Sixth	Frank Ellison.....	615	Peerless.....	drift	Lewiston.....
438	Sixth	Winifrede Coal Co.....	616	i Gas.....	drift	Winifrede.....
439	Sixth	Winifrede Coal Co.....	618	South.....	drift	Winifrede.....
440	Sixth	Winifrede Coal Co.....	620	North Pick.....	drift	Winifrede.....
441	Sixth	Winifrede Coal Co.....	619	North Machine.....	drift	Winifrede.....
442	Sixth	Winifrede Coal Co.....	617	West.....	drift	Winifrede.....
443	Sixth	Winifrede Coal Co.....	617a	New Coalburg.....	drift	Winifrede.....
444	Sixth	Winifrede Coal Co.....				
445	Sixth	Dry Branch Coal Co.....	621	Gas or No. 1.....	drift	Dry Branch.....
446	Sixth	Dry Branch Coal Co.....	622	Coalburg or No. 2.....	drift	Dry Branch.....
447	Sixth	Dry Branch Coal Co.....	623	Belmont.....	drift	Dry Branch.....
448	Sixth	Coalburg Colliery Co.....	624	Ronda.....	drift	Ronda.....
449	Sixth	Wyatt Coal Co.....	628	Oakley.....	drift	Sharon.....
450	Sixth	Wyatt Coal Co.....	652	Berlin.....	drift	Sharon.....
451	Sixth	Wyatt Coal Co.....	625	i North Horton.....	drift	Sharon.....
452	Sixth	Wyatt Coal Co.....	626	South Horton.....	drift	Sharon.....
453	Sixth	Chelyan Fuel Co.....	667	Coaling Station.....	drift	Chelyan.....
454	Sixth	Persinger Coal Co.....	627	Wilton.....	drift	Miami.....
455	Sixth	Lamont Mining Co.....	630	La Mont Nos. 1 & 2.....	2 drifts	Beth.....
456	Sixth	Lamont Mining Co.....	631	La Mont Nos. 3 & 5.....	2 drifts	Beth.....
457	Sixth	Holley & Stephenson Coal & Coke Co.....	632	i No. 1.....	drift	Eskdale.....
458	Sixth	Holley & Stephenson Coal & Coke Co.....	633	Stephenson No. 2.....	drift	Eskdale.....
459	Sixth	Holley & Stephenson Coal & Coke Co.....	634	i Coalburg.....	drift	Eskdale.....
460	Sixth	Holley & Stephenson Coal & Coke Co.....	635	No. 5.....	drift	Eskdale.....
461	Sixth	Wake Forest Mining Co.....	651	Wake Forest.....	drift	Wake Forest.....
462	Sixth	Carbon Coal Co.....	653	North.....	drift	Carbon.....
463	Sixth	Carbon Coal Co.....	662	South.....	drift	Carbon.....
464	Sixth	Carbon Coal Co.....	663	South Splint.....	drift	Carbon.....
465	Sixth	Republic Coal Co.....	664	No. 1.....	drift	Carbon.....
466	Sixth	Republic Coal Co.....	665	No. 2.....	drift	Carbon.....
467	Sixth	Republic Coal Co.....	666	No. 3.....	drift	Carbon.....
468	Sixth	West Virginia Colliery Co.....	655	No. 1.....	drift	Wevaco.....
469	Sixth	West Virginia Colliery Co.....	658	No. 2.....	drift	Wevaco.....
470	Sixth	West Virginia Colliery Co.....	659	No. 3.....	drift	Wevaco.....
471	Sixth	West Virginia Colliery Co.....	660	No. 4.....	drift	Wevaco.....
472	Sixth	Cabin Creek Cons. Coal Co.....	629	Davis.....	drift	Kayford.....
473	Sixth	Cabin Creek Cons. Coal Co.....	636	Cherokee.....	drift	Kayford.....
474	Sixth	Cabin Creek Cons. Coal Co.....	637	Caledonia.....	drift	Kayford.....
475	Sixth	Cabin Creek Cons. Coal Co.....	638	Red Warrior.....	drift	Kayford.....
476	Sixth	Cabin Creek Cons. Coal Co.....	639	Buckeye.....	drift	Kayford.....
477	Sixth	Cabin Creek Cons. Coal Co.....	640	Empire.....	drift	Kayford.....
478	Sixth	Cabin Creek Cons. Coal Co.....	641	Black Tulip.....	drift	Kayford.....
479	Sixth	Cabin Creek Cons. Coal Co.....	642	Keystone.....	drift	Kayford.....
480	Sixth	Cabin Creek Cons. Coal Co.....	643	Acme.....	drift	Kayford.....
481	Sixth	Cabin Creek Cons. Coal Co.....	644	Shamrock.....	drift	Kayford.....
482	Sixth	Cabin Creek Cons. Coal Co.....	645	Thistle.....	drift	Kayford.....
483	Sixth	Cabin Creek Cons. Coal Co.....	646	Raccoon.....	drift	Kayford.....
484	Sixth	Cabin Creek Cons. Coal Co.....	669	Raccoon Splint.....	drift	Kayford.....
485	Sixth	Cabin Creek Cons. Coal Co.....	647	Rose.....	drift	Kayford.....
486	Sixth	Cabin Creek Cons. Coal Co.....	648	Kayford.....	drift & sl	Kayford.....
487	Sixth	Cabin Creek Cons. Coal Co.....	649	Holly.....	drift	Kayford.....
488	Sixth	Cabin Creek Cons. Coal Co.....	650	Quarrier.....	drift	Kayford.....
489	Sixth	Cabin Creek Cons. Coal Co.....	656	United Gas.....	drift	Kayford.....
490	Sixth	Cabin Creek Cons. Coal Co.....	657	United Splint.....	drift	Kayford.....
491	Sixth	Cabin Creek Cons. Coal Co.....	661	Belleclare.....	drift	Kayford.....
492	Sixth	Cabin Creek Cons. Coal Co.....	654	Ruby.....	drift	Kayford.....
493	Sixth	Paint Creek Collieries Co.....	601	Reynolds.....	drift	Mucklow.....
494	Sixth	Paint Creek Collieries Co.....	604	Knickerbocker.....	drift	Mucklow.....
495	Seventh	Paint Creek Collieries Co.....	710	Scranton.....	drift	Mucklow.....

e Seventh District—Wm. Warner, Inspector.
i Idle all year. a Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
F. H. Palmer.....	George Carey.....	Bl'k Band	3-11...	2 fans.....	59	436
A. M. Wooldridge.....	James Hemmings.....	Peerless	2-5...	fan.....	27	437
		Peerless	2-4...	fan.....		438
Wm. Crichton.....	D. W. Richards.....	Winifrede	4-8...	fan.....	94	439
Wm. Crichton.....	W. H. Stewart.....	Winifrede	4-8...	fan.....	87	440
Wm. Crichton.....	W. H. Stewart.....	Winifrede	4-8...	fan.....		441
Wm. Crichton.....	E. E. Dobbs.....	Winifrede	4-2...	fan.....	59	442
Wm. Crichton.....	Wm. Crichton, Jr.....	Coalburg	4-6...	fan.....	88	443
						444
C. G. Wood.....	G. W. Stone.....	Cd'r Gr' ve	3-6...	fan.....	50	445
C. G. Wood.....	G. W. Stone.....	Coalburg	6-0...	fan.....	19	446
C. G. Wood.....	G. W. Stone.....	Lewiston	3-6...	fan.....	56	447
C. F. Slack.....	Dan Mairs.....	Coalburg	6-0...	fan.....	71	448
J. S. Miller.....	Ed. Glover.....	Lewiston	4-0...	fan.....	51	449
J. S. Miller.....	John Mandt.....	No. 2 Gas.	5-6...	fan.....	68	450
J. S. Miller.....		Coalburg	6-0...	fan.....		451
J. S. Miller.....	John Pettry.....	Coalburg	4-0...	fan.....	85	452
W. M. Rollins.....	W. M. Rollins.....	Peerless	2-6...	furnace.....	11	453
J. T. McAllister.....	L. K. McAllister.....	C'dr Gr' ve	3-4...	fan.....	14	454
Paul L. James.....	W. T. Gosney.....	No. 2 Gas.	3-10...	fan.....	10	455
Paul L. James.....	W. T. Gosney.....	Lewiston	6-0...	fan.....	53	456
		No. 2 Gas.	3-4...	fan.....		457
F. H. McClung.....	J. M. McDonough.....	No. 2 Gas.	5-0...	fan.....	56	458
		Coalburg	3-8...	furnace.....		459
F. H. McClung.....	D. A. Hemmings.....	No. 5 Sp'lt	6-0...	fan.....	40	460
J. C. Grymes.....	Fred Morot.....	No. 2 Gas.	5-0...	fan.....	56	461
J. C. Gilmore, Sr.....	Cabell Pierce.....	No. 2 Gas.	5-4...	fan.....	43	462
J. C. Gilmore, Sr.....	W. T. Ivers.....	No. 2 Gas.	5-4...	3 fans.....	42	463
J. C. Gilmore, Sr.....	Thomas Gosnay.....	No. 5	6-0...	fan.....	44	464
M. W. Murphy.....	John Hughes.....	No. 2 Gas.	5-4...	fan.....	60	465
M. W. Murphy.....	O. Meadows.....	No. 2 Gas.	5-4...	fan.....	59	466
M. W. Murphy.....	John Shawhen.....	No. 2 Gas.	5-4...	fan.....	44	467
K. D. Quarrier.....	Thomas McGary.....	No. 2 Gas.	5-4...	fan.....	76	468
K. D. Quarrier.....	J. C. Smith.....	No. 2 Gas.	5-4...	fan.....	30	469
K. D. Quarrier.....	C. L. Petty.....	Coalburg	6-0...	fan.....	42	470
K. D. Quarrier.....	G. E. Stanley.....	No. 2 Gas.	5-4...	2 fans.....	42	471
R. E. Thompson.....	R. E. Thompson.....	Lewiston	5-0...	fan.....	48	472
H. L. Fisher.....	Andy Yeck.....	No. 2 Gas.	5-0...	fan.....	51	473
H. L. Fisher.....	H. M. Daniels.....	No. 2 Gas.	4-4...	fan.....	34	474
H. L. Fisher.....	J. W. Gay.....	No. 2 Gas.	4-6...	fan.....	54	475
J. A. Straughan.....	Wm. Cainer.....	No. 2 Gas.	5-10...	fan.....	30	476
J. A. Straughan.....	T. J. Baldwin.....	No. 2 Gas.	4-8...	fan.....	44	477
J. A. Straughan.....	Frank Scherer.....	No. 2 Gas.	4-10...	fan.....	26	478
J. A. Straughan.....	John T. Scott.....	No. 2 Gas.	4-0...	fan.....	54	479
J. A. Straughan.....	R. G. Poff.....	No. 2 Gas.	5-0...	fan.....	28	480
W. A. Otey.....	J. A. Bragg.....	No. 2 Gas.	5-10...	fan.....	64	481
W. A. Otey.....	T. B. Fisher.....	No. 2 Gas.	4-10...	fan.....	44	482
W. A. Otey.....	John Dower.....	No. 2 Gas.	5-0...	fan.....	46	483
W. A. Otey.....	V. A. Miller.....	Lo. Fr'pt.	7-10...	natural.....	39	484
W. A. Otey.....	W. S. Holmes.....	Coalburg	6-0...	fan.....	75	485
W. A. Otey.....	M. Darby.....	No. 2 Gas.	5-8...	fan.....	83	486
H. L. Fisher.....	M. J. Fisher.....	No. 2 Gas.	4-8...	fan.....	42	487
H. L. Fisher.....	J. N. Branham.....	No. 2 Gas.	5-0...	fan.....	53	488
A. P. Scherer.....	J. H. Titlow.....	No. 2 Gas.	5-2...	fan.....	94	489
A. P. Scherer.....	D. S. Holmes.....	Coalburg	5-0...	fan.....	44	490
A. P. Scherer.....	Joe Filkins.....	No. 2 Gas.	4-10...	2 fans.....	44	491
A. P. Scherer.....	Henry Roberts.....	Coalburg	5-3...	fan.....	39	492
S. E. Childers.....	W. E. Clendennin.....	Bl'k Band	4-0...	fan.....	74	493
S. E. Childers.....	W. E. Miller.....	Bl'k Band	3-4...	fan.....	78	494
J. A. Greene.....	John Cox.....	Coalburg	5-0...	fan.....	76	495

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
Kanawha County—Con't						
496	Seventh	Paint Creek Collieries Co.	711	Paint Creek	drift	Mucklow
497	Seventh	Paint Creek Collieries Co.	712	Wacomah	drift	Mucklow
498	Seventh	Paint Creek Collieries Co.	713	Banner No. 1	drift	Mucklow
499	Seventh	Paint Creek Collieries Co.	714	Banner No. 2	drift	Mucklow
500	Seventh	Paint Creek Collieries Co.	716	Detroit	drift	Mucklow
501	Seventh	Paint Creek Collieries Co.	717	i Morton No. 1	drift	Mucklow
502	Seventh	Paint Creek Collieries Co.	718	i Morton No. 2	drift	Mucklow
503	Seventh	Paint Creek Collieries Co.	719	i Nuckols	drift	Mucklow
504	Seventh	Paint Creek Collieries Co.	720	Grose No. 1	drift	Mucklow
505	Seventh	Paint Creek Collieries Co.	721	Grose No. 2	drift	Mucklow
506	Seventh	Paint Creek Collieries Co.	721a	i Greenbrier No. 1	drift	Mucklow
507	Seventh	Paint Creek Collieries Co.	722	Greenbrier No. 2	drift	Mucklow
508	Seventh	Paint Creek Collieries Co.	723	Greenbrier No. 3	drift	Mucklow
509	Seventh	The Coalburg-Kanawha Coal Co.	702	"A"	drift	Coalburg
510	Seventh	The Coalburg-Kanawha Coal Co.	703	"B"	drift	Coalburg
511	Seventh	Southwestern Spl't Fuel Co.	705	Coalburg	drift	Grafton & Hansford
512	Seventh	Southwestern Spl't Fuel Co.	706	c Lewiston	drift	Grafton & Hansford
513	Seventh	Equitable Coal Co.	709	Coalburg No. 8	drift	Hansford
514	Seventh	Standard Splint & Gas C. Co.	715	Standard	drift	Standard
515	Seventh	Imperial Colliery Co.	724	No. 1	drift	Burnwell
516	Seventh	Imperial Colliery Co.	725	i No. 2	drift	Burnwell
517	Seventh	Imperial Colliery Co.	726	No. 3	drift	Burnwell
518	Seventh	Chesapeake Mining Co.	727	Chesapeake No. 1	drift	Handley
519	Seventh	Chesapeake Mining Co.	728	Chesapeake No. 2	drift	Handley
520	Seventh	Chesapeake Mining Co.	729	Chesapeake No. 3	drift	Handley
521	Seventh	Montgomery Coal Co.	730	Hickory Nut	drift	Handley
522	Seventh	Montgomery Coal Co.	733	Upper Creek	drift	Handley
523	Seventh	Morris Creek Coal Co.	734	Morris Creek	drift	Donwood
Boone County.						
524	s Sixth	The Coal River Co.	671	Ottawa	drift	Jeffrey
525	Sixth	The Spruce River Coal Co.	672	Ramage No. 1	drift	Greenview
526	Sixth	The Spruce River Coal Co.	673	Ramage No. 2	drift	Greenview
527	Sixth	The Spruce River Coal Co.	674	Ramage No. 3	drift	Greenview
Nicholas County.						
528	e Seventh	Kentucky Coal & Lum. Co.	772	Mount Carmel	drift	Dixie
529	Seventh	Kentucky Coal & Lum. Co.	773	i Cambria	drift	Dixie
530	Seventh	Kentucky Coal & Lum. Co.	774	i National	drift	Dixie
531	Seventh	Arminius Coal Co.	775	Arminius	drift	Scotford
532	Seventh	Raven Collieries	771	Raven	drift	Greendale
533	Seventh	Pardee & Curtin Lum. Co.	779	Panther Creek	drift	Curtin
534	Seventh	Saxman Coal & Coke Co.	776	Saxman	drift	Fenwick
Greenbrier County.						
535	Eighth	Elk Lick Coal Co.	780	Lost Flat	drift	Richwood
Raleigh County.						
536	s Sixth	Big Coal Co.	670	Dorothy	drift	Dorothy
537	n Ninth	The New River Colls. Co.	941	Royal	drift	Prince
538	Ninth	The New River Colls. Co.	941	i Mill Creek	drift	Prince
539	Ninth	The New River Colls. Co.	943	Lanark No. 3	drift	Lanark
540	Ninth	The New River Colls. Co.	949	Lanark No. 4	drift	Lanark
541	Ninth	The New River Colls. Co.	973	Eccles No. 11	shaft	Eccles
542	Ninth	The New River Colls. Co.	974	i Eccles No. 12	shaft	Eccles
543	Ninth	McKell Coal & Coke Co.	937	Oswald	drift	Glen Jean
544	Ninth	McKell Coal & Coke Co.	938	Sidney	drift	Glen Jean
545	Ninth	McKell Coal & Coke Co.	939	Graham	drift	Glen Jean
546	Ninth	McKell Coal & Coke Co.	940	Tamroy	drift	Glen Jean
547	Ninth	Wright Coal & Coke Co.	942	Wright No. 1	2 drifts	Wright

e Seventh District—Wm. Warner, Inspector. s Sixth District—Bonner H. Hill, Inspector.
n Ninth District—John Phillips, Inspector until April 30, 1909. i Idle all year.

c Closed indefinitely November, 1907. a Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
J. A. Greene	T. M. Burke	Coalburg ..	7-6 ..	fan	102	496
J. A. Greene	Henry Johnson ..	Coalburg ..	5-0 ..	fan	53	497
J. A. Greene	D. L. Waters	Coalburg ..	6-6 ..	fan	41	498
J. A. Greene	D. L. Waters	Lewiston ..	4-8 ..	furnace ..	25	499
J. A. Greene	Richard Gill	Eagle	4-0 ..	fan	26	500
.....	.....	Eagle	3-10 ..	furnace ..	.....	501
.....	.....	Eagle	3-10 ..	furnace ..	.....	502
.....	.....	Eagle	3-9 ..	furnace ..	.....	503
Frank Kerns	P. F. Berry	Eagle	3-6 ..	fan	31	504
Frank Kerns	V. D. Johnson	Powellton ..	6-0 ..	furnace ..	30	505
.....	.....	.....	.....	.....	.....	506
Frank Kerns	Ed. Sims	No. 2 Gas ..	5-0 ..	fan	52	507
Frank Kerns	Lee Patrick	Winifrede ..	6-0 ..	fan	27	508
J. A. Willis	J. N. Bergraff	Coalburg ..	6-0 ..	fan	49	509
J. A. Willis	J. N. Bergraff	Lewiston ..	3-6 ..	furnace ..	17	510
A. P. Brady	Wm. Poff	Coalburg ..	6-0 ..	fan	56	511
A. P. Brady	Wm. Poff	Coalburg ..	6-0 ..	fan .....	.....	512
E. S. Brewer	E. S. Brewer	Coalburg ..	4-9 ..	fan	75	513
W. S. Wood	Ed Foster	Coalburg ..	7-6 ..	fan	83	514
Quinn Morton	L. R. Howell	Eagle	6-0 ..	fan	76	515
.....	.....	Eagle	3-6 ..	fan .....	.....	516
Quinn Morton	Homer Howell ..	Eagle	4-0 ..	fan	76	617
J. H. Carter	J. F. White	Kanawha ..	5-9 ..	fan	109	518
J. H. Carter	J. W. Frazier	No. 2 Gas ..	4-4 ..	fan	120	519
J. H. Carter	J. W. Frazier	Coalburg ..	5-2 ..	fan		520
S. H. Montgomery ..	S. P. Johnson	Kanawha ..	6-0 ..	2 fans ..	72	521
S. H. Montgomery ..	S. P. Johnson	Kanawha ..	6-0 ..	fan		522
Geo. Fraser	James Fraser	Winifrede ..	4-6 ..	fan	28	523
J. M. Moore	Ed Zwilling	Eagle	5-3 ..	fan	12	524
J. B. Ramage	J. B. Ramage	Eagle	5-6 ..	natural ..	8	525
J. B. Ramage	J. B. Ramage	Eagle	5-6 ..	natural ..		526
J. B. Ramage	J. B. Ramage	Eagle	5-6 ..	natural ..		527
L. D. Burns, Agent ..	W. H. Morris	Coalburg ..	4-0 ..	fan	16	528
L. D. Burns, Agent ..	W. H. Morris	Coalburg ..	4-6 ..	furnace ..	.....	529
L. D. Burns, Agent ..	W. H. Morris	Coalburg ..	4-0 ..	furnace ..	.....	530
G. E. Smith	S. W. Smith	Coalburg ..	4-4 ..	furnace ..	27	531
Frank H. Snyder	Jno. Blizard	Coalburg ..	4-0 ..	fan	27	532
C. B. Mayo	J. M. Boggs	Coalburg ..	4-0 ..	air shaft ..	5	533
R. W. Hayes	Thomas Jones	Sewell	3-0 ..	furnace ..	24	534
H. W. Armstrong	H. P. Jones	Fire Creek ..	4-0 ..	fan	45	535
Chas. E. Sandberg	C. E. Foster	Coalburg ..	11-6 ..	fan	162	536
James Martin	R. C. Hume	Fire Creek ..	2-6 ..	fan	30	537
James Martin .....	.....	Fire Creek ..	2-6 ..	fan .....	.....	538
James Martin	C. A. Lawson	Sewell	5-3 ..	furnace ..	20	539
James Martin	C. A. Lawson	Sewell	5-3 ..	fan	64	540
James Martin	L. Blankensopp ..	Beckley	5-0 ..	fan	100	541
James Martin .....	.....	Beckley	3-6 ..	fan .....	.....	542
C. W. Carmen	Geo. Smith	Sewell	4-6 ..	fan	108	543
C. W. Carmen	Geo. Smith	Sewell	4-6 ..	fan		544
F. Hinson	Frank Beard	Sewell	4-10 ..	fan	59	545
F. Hinson	D. Nuckolls	Sewell	4-10 ..	furnace ..	35	546
C. Gressang	Arnold Ford	Fire Creek ..	4-0 ..	2 fans ..	83	547

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	NAME OF COMPANY.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Raleigh County—Con't.</i>						
548	Ninth	Wright Coal & Coke Co.	943-4	Wright No. 2 & 3	drift	Wright
549	Ninth	Stonewall Coal & Coke Co.	947	Terry or No. 2	drift	Terry
550	Ninth	Stonewall Coal & Coke Co.	945	Stonewall No. 3	drift	Stonewall
551	Ninth	Stonewall Coal & Coke Co.	946	Stonewall No. 4	drift	Stonewall
552	Ninth	Piney Mining Co.	982	No. 1	drift	Stanaford
553	Ninth	Piney Mining Co.	950	No. 2	drift	Stanaford
554	Ninth	Piney Mining Co.	951	No. 3	drift	Stanaford
555	Ninth	Piney Mining Co.	952	No. 4	drift	Stanaford
556	Ninth	Piney Mining Co.	954	i No. 6	drift	Stanaford
557	Ninth	Raleigh Coal & Coke Co.	955	Raleigh No. 1	drift	Raleigh
558	Ninth	Raleigh Coal & Coke Co.	956	Raleigh No. 2	drift	Raleigh
559	Ninth	Raleigh Coal & Coke Co.	958	Raleigh No. 3	drift	Raleigh
560	Ninth	Raleigh Coal & Coke Co.	957	Raleigh No. 4	drift	Raleigh
561	Ninth	Raleigh Coal & Coke Co.	959	Raleigh No. 5	drift	Raleigh
562	Ninth	Raleigh Coal & Coke Co.	960	Raleigh No. 6	drift	Raleigh
563	Ninth	Blue Jay Lumber Co.	961	Raleigh No. 4	drift	Blue Jay
564	Ninth	Sullivan Coal & Coke Co.	962	North & South	4 drift	Sullivan
565	Ninth	Cranberry Fuel Co.	966	Sprague	slope	Sprague
566	Ninth	Cranberry Fuel Co.	967	Skelton	slope	Macdonald
567	Ninth	Cranberry Fuel Co.	968	Cranberry	shaft	Cranberry
568	Ninth	Cranberry Fuel Co.	969	Prosperity	shaft	Cranberry
569	Ninth	Mabscott Coal & Coke Co.	970	Mabscott	drift	Mabscott
570	Ninth	Beckley Coal & Coke Co.	972	Beckley	slope	Wickham
571	Ninth	Price Hill Fuel Co.	966	Price Hill	shaft	Price Hill
572	Ninth	Home Coal Co.	971	a Lewis	drift	Wickham
573	Ninth	Slab Fork Coal Co.	975	Slab Fork No. 1	drift	Slab Fork
574	Ninth	Slab Fork Coal Co.	976	Slab Fork No. 2	drift	Slab Fork
575	Ninth	Slab Fork Coal Co.	980	Slab Fork No. 3	drift	Slab Fork
576	Ninth	Slab Fork Coal Co.	981	Slab Fork No. 4	drift	Slab Fork
577	Ninth	E. E. White Coal Co.	977	No. 1	shaft	Glen White
578	Ninth	E. E. White Coal Co.	978	No. 2	shaft	Glen White
579	Ninth	MacAlpin Coal Co.	979	J McAlpin	2 drifts	Hinton
<i>Mercer County.</i>						
580	† Tenth	Mill Creek Coal & Coke Co.	1024	Coaldale	drift	Coopers
581	Tenth	Mill Creek Coal & Coke Co.	1026	East Mill Creek	drift	Coopers
582	Tenth	Mill Creek Coal & Coke Co.	1025	West Mill Creek	drift	Coopers
583	Tenth	Mill Creek Coal & Coke Co.	1028	Tug River	drift	Coopers
584	Tenth	Buckeye Coal & Coke Co.	1030	North	drift	Freeman
585	Tenth	Buckeye Coal & Coke Co.	1029	South	drift	Freeman
586	Tenth	Booth-Bowen Coal & C. Co.	1031	Booth-Bowen	drift	Freeman
587	Tenth	Pocahontas Cons. Colls.				
588	Tenth	Co., Inc.	1032	Caswell-Elmhock	drift	Pocahontas, Va.
589	Tenth	Pocahontas Cons. Colls.				
590	Tenth	Co., Inc.	1033	Caswell-Elkhorn	drift	Pocahontas, Va.
591	Tenth	Louisville Coal & Coke Co.	1035	Louisville	drift	Goodwill
592	Tenth	Louisville Coal & Coke Co.	1034	Goodwill	drift	Goodwill
593	Tenth	Cephus Coal Co.	1037	Cephus	drift	Godfrey
594	Tenth	Crystal Coal & Coke Co.	1838	Crystal Nos. 2 & 4	3 drifts	Godfrey
595	Tenth	American Coal Co. of Alleghany County	1040	Crane Creek No. 1	drift	McComas
596	Tenth	American Coal Co. of Alleghany County	1041	Crane Creek No. 2	drift	McComas
597	Tenth	American Coal Co. of Alleghany County	1042	Pinnacle North	drift	McComas
598	Tenth	American Coal Co. of Alleghany County	1043	Pinnacle South	drift	McComas
599	Tenth	American Coal Co. of Alleghany County	1048	Piedmont No. 1	drift	McComas
600	Tenth	American Coal Co. of Alleghany County	1048a	Piedmont No. 2	drift	McComas
601	Tenth	The Thomas Coal Co.	1044	Thomas	drift	McComas
602	Tenth	Pawama Coal & Coke Co.	1045	Nos. 1 & 2	2 drifts	Matoaka
602	Tenth	The Weyanoke Coal & C. Co.	1046	Weyanoke	2 drifts	Giatto

n Ninth District—John Phillips, Mine Inspector until April 30, 1909.

† Tenth District—D. R. Phillips, Inspector until March 31, 1909.

J. Just being developed. i Idle all year. a Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS. AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employes.	No.
C. Gressang	Geo. Moran	Fire Creek	4-6.	fan	91	548
F. M. Lee	W. H. Cross	Fire Creek	4-0.	fan	51	549
J. A. Bruebeck	O. L. Barrett	Sewell	5-0.	fan	42	550
J. A. Bruebeck	Frank Sample	Fire Creek	2-8.	furnace	10	551
Arthur Mitchell	F. R. Clark	Beckley	6-0.	fan	96	552
Arthur Mitchell	F. R. Clark	Beckley	6-0.	fan	35	553
Arthur Mitchell	M. L. McGuire	Sewell	4-0.	fan	56	554
Arthur Mitchell	W. Hurt	Beckley	5-0.	fan	48	555
Arthur Mitchell		Beckley	6-0.	fan		556
Ernest Chilson	T. L. Conway	Beckley	4-0.	fan		557
Ernest Chilson	T. L. Conway	Beckley	4-0.	fan	80	558
Ernest Chilson	T. L. Conway	Beckley	4-0.	fan		559
Ernest Chilson	John McArthur	Beckley	4-0.	fan	155	560
Ernest Chilson	J. T. Robertson	Sewell	3-8.	fan	41	561
Ernest Chilson	Ed Zwilling	Beckley	4-6.	fan	88	562
P. C. Lynch	Patrick McQuade	Beckley	5-0.	fan	40	563
Ed Hope	Ed Hope	Beckley	4-4.	fan & furn	55	564
Fred Dixon, Jr.	Wm. Crickmer	Sewell	3-6.	fan	115	565
Fred Dixon, Jr.		Sewell	4-6.	fan		566
Fred Dixon, Jr.	Jno. T. Davis	Sewell	4-6.	fan	83	567
Fred Dixon, Jr.	James Nesbet	Sewell	4-0.	fan	56	568
G. R. Krebbs	W. D. Lee	Sewell	4-6.	fan	72	569
G. R. Krebbs	R. B. Cobb	Sewell	4-6.	fan	238	570
E. Pinkney	Adam Lindley	Sewell	4-4.	fan	105	571
		Sewell	4-6.	fan		572
W. G. Carpenter	Wm. Hurt	Beckley	4-6.	} fan	114	573
W. G. Carpenter	Wm. Hurt	Beckley	4-6.			574
W. G. Carpenter	Wm. Hurt	Beckley	4-6.			575
W. G. Carpenter	Wm. Hurt	Beckley	4-6.			576
Geo. D. Evans	Frank McHugh	Beckley	11-6.	} fan	97	577
Geo. D. Evans		Beckley	11-6.			578
E. E. White, G. M., Wm. Laing		Beckley	11- 0			579
C. E. F. Burnley	J. T. Woods	Poca No. 3	8-4.	fan	148	580
C. E. F. Burnley	J. W. Johnson	Poca No. 3	8-0.	fan		581
C. E. F. Burnley	J. W. Johnson	Poca No. 3	8-0.	fan	200	582
C. E. F. Burnley	J. W. Johnson	Poca No. 3	8-0.	fan		583
F. R. Hewitt	J. H. Williams	Poca No. 3	5-6.	fan	124	584
F. R. Hewitt	J. H. Williams	Poca No. 3	5-6.	fan		585
J. P. Bowen	B. F. Bray	Poca No. 3	7-6.	fan	105	586
Jas. E. Jones, G. M.	W. H. Walters	Poca No. 3	7-6.	fan	300	587
Jas. E. Jones, G. M.	W. H. Walters	Poca No. 3	7-6.	fan		588
Jairus Collins	J. W. Montgomery	Poca No. 3	4-5.	fan	175	589
Jairus Collins	J. W. Montgomery	Poca No. 3	4-5.	fan		590
P. J. Vigliani	D. M. Thompson	Poca No. 3	5-0.	furnace	22	591
W. H. Thomas	Walter Hall	Poca No. 3	4-6.	fan	163	592
T. O. Deaumer	J. H. Hughes	Poca No. 3	4-6.	fan	157	593
T. O. Deaumer	J. H. Hughes	Poca No. 3	4-6.	fan		594
T. O. Deaumer	J. L. Dewese	Poca No. 3	4-6.	fan	152	595
T. O. Deaumer	J. L. Dewese	Poca No. 3	4-6.	fan		596
T. O. Deaumer	J. L. Dewese	Poca No. 3	4-6.	fan	54	597
T. O. Deaumer	C. R. Irving	Poca No. 3	4-8.	fan		598
T. O. Deaumer	C. R. Irving	Poca No. 3	4-8.	furnace		599
W. J. Pritchard	T. C. Dooley	Poca No. 3	4-6.	fan	150	600
J. C. Stras	B. H. English	Poca No. 3	4-5.	fan & furn.	56	601
R. D. Patterson	J. S. Woodyard	Poca No. 3	4-4.	fan	64	602

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
Mercer County—Con't.						
603	Tenth	The Weyanoke Coal & C. Co.	1047	Elihu	drift	Giatto
604	Tenth	The Smokeless C. & C. Co.	1049	Smokeless	drift	Hiawatha
605	Tenth	Hiawatha Coal & C. Co.	1050	Hiawatha	drift	Hiawatha
606	Tenth	Spring Coal Mining Co.	1051	Spring	drift	Springton
607	Tenth	Wenonah Coal & Coke Co.	1052	Wenonah	drift	Dott
608	Tenth	T. D. Lee Coal Co.	1028a	T. D. Lee	drift	Bramwell
McDowell County.						
609	Tenth	Algoma Coal & Coke Co.	1002	Piney	drift	Algoma
610	Tenth	Algoma Coal & Coke Co.	1001	North Fork	drift	Algoma
611	Tenth	Elk River Coal & Coke Co.	1003-4	Elk Ridge	2 drifts	North Fork
612	Tenth	Gilliam Coal & Coke Co.	1005	Gilliam	drift	Gilliam
613	Tenth	Indian Ridge Coal & C. Co.	1007	Indian Ridge	drift	Worth
614	Tenth	Roanoke Coal & Coke Co.	1008	Roanoke	drift	Worth
615	Tenth	Arlington Coal & Coke Co.	1009	Arlington	drift	McDowell
616	Tenth	Greenbrier Coal & Coke Co.	1010	Greenbrier	drift	McDowell
617	Tenth	McDowell Coal & Coke Co.	1011	McDowell	drift	McDowell
618	Tenth	Ashland Coal & Coke Co.	1014	Ashland	drift	Ashland
619	Tenth	Ashland Coal & Coke Co.	1012	Monitor	2 drifts	Ashland
620	Tenth	Poca. Cons. Colls. Co., Inc.	1013	Cherokee	drift	Pocahontas, Va.
621	Tenth	Poca. Cons. Colls. Co., Inc.	1017	Lick Branch	drift	Pocahontas, Va.
622	Tenth	Poca. Cons. Colls. Co., Inc.	1018	Delta	drift	Pocahontas, Va.
623	Tenth	Poca. Cons. Colls. Co., Inc.	1019	Shamokin	drift	Pocahontas, Va.
624	Tenth	Poca. Cons. Colls. Co., Inc.	1020-1	Norfolk	2 drifts	Pocahontas, Va.
625	Tenth	Poca. Cons. Colls. Co., Inc.	1022	Angle	drift	Pocahontas, Va.
626	Tenth	Poca. Cons. Colls. Co., Inc.	1022a	West	drift	Pocahontas, Va.
627	Tenth	Zenith Coal & Coke Co.	1015	No. 1	drift	Crumpler
628	Tenth	Zenith Coal & Coke Co.	1016	No. 2	drift	Crumpler
629	Tenth	Elkhorn Coal & Coke Co.	1023	Elkborn	drift	Mayberry
630	e Elev'th	Mohawk Coal & Coke Co.	1101	Mohawk	drift	Mayberry
631	Elev'th	N. Riv. & Poca. Cons. C. Co.	1102	Nos. 1 & 11	2 drifts	Berwind
632	Elev'th	N. Riv. & Poca. Cons. C. Co.	1104	No. 2	drift	Berwind
633	Elev'th	N. Riv. & Poca. Cons. C. Co.	1105	No. 3	drift	Berwind
634	Elev'th	Dry Fork Min. & Invest. Co.	1106	War Creek	drift	War
635	Elev'th	Hall Mining Co.	1108	No. 1	drift	Yukon
636	Elev'th	Hall Mining Co.	1107	No. 2	drift	Yukon
637	Elev'th	Pocahontas Domestic C. Co.	1188	Domestic	drift	War
638	Elev'th	War Creek Coal Co.	1189	No. 1	drift	Yukon
639	Elev'th	Dry Fork Colliery Co.	1109	Williams	drift	Yukon
640	Elev'th	Reynolds Mining Co.	1191	Reynolds	drift	Lex
641	Elev'th	Virginia-Pocahontas C. Co.	1112	No. 1	drift	Coalwood
642	Elev'th	Virginia-Pocahontas C. Co.	1114	No. 11	drift	Coalwood
643	Elev'th	Virginia-Pocahontas C. Co.	1113	No. 2 East	drift	Coalwood
644	Elev'th	Virginia-Pocahontas C. Co.	1113	No. 2 West	drift	Coalwood
645	Elev'th	Virginia-Pocahontas C. Co.	1114	No. 3	drift	Coalwood
646	Elev'th	Virginia-Pocahontas C. Co.	1115	No. 4	drift	Coalwood
647	Elev'th	Virginia-Pocahontas C. Co.	1116	No. 5	drift	Coalwood
648	Elev'th	Vaughan Coal & Coke Co.	1118	Vaughan	drift	Roderfield
649	Elev'th	Flanagan Coal Co.	1192	J No. 1	drift	Roderfield
650	Elev'th	Premier-Poca. Colls. Co.	1117	No. 1	drift	Flanagan
651	Elev'th	Premier-Poca. Colls. Co.	1117a	No. 2	drift	Flanagan
652	Elev'th	Premier-Poca. Colls. Co.	1117b	No. 3	drift	Flanagan
653	Elev'th	Big Sandy Coal & Coke Co.	1119	Big Sandy	drift	Big Sandy
654	Elev'th	Big Sandy Coal & Coke Co.	1120	Marytown	drift	Big Sandy
655	Elev'th	Twin Branch Mining Co.	1123	Twin Branch	drift	Twin Branch
656	Elev'th	Maher Coal & Coke Co.	1124	Maher No. 1	drift	Twin Branch
657	Elev'th	Maher Coal & Coke Co.	1127	Maher No. 2	drift	Twin Branch
658	Elev'th	J. B. B. Collieries Co.	1132	J. B. B. No. 1	drift	Twin Branch
659	Elev'th	J. B. B. Collieries Co.	1125	J. B. B. No. 2	drift	Twin Branch
660	Elev'th	J. B. B. Collieries Co.	1121	J. B. B. No. 3	drift	Twin Branch
661	Elev'th	J. B. B. Collieries Co.	1126	J. B. B. No. 4	drift	Twin Branch
662	Elev'th	J. B. B. Collieries Co.	1128	J. B. B. No. 5	drift	Twin Branch
663	Elev'th	Superior-Pocahontas C. Co.	1128a	No. 1	drift	Hallsville
664	Elev'th	Superior-Pocahontas C. Co.	1129	No. 2	drift	Hallsville

e Eleventh District—James G. Boyd, Inspector until November 15, 1908.

j Just being developed. a Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employes.	No.
R. D. Patterson.....	Albert Vines.....	Poca No. 3	4-4	furnace	43	603
O. N. Mooman.....	J. W. Shrewsbury.....	Poca No. 3	4-0	fan	40	604
O. N. Mooman.....	Wm. Nunn.....	Poca No. 3	5-8	fan	85	605
M. J. Saunders.....	H. H. Honaker.....	Poca No. 3	4-4	fan	131	606
R. Hewitt.....	Ed Lucas.....	Poca No. 3	5-0	fan	62	607
T. D. Lee.....		Poca No. 3	6-0	natural	3	608
Wm. J. Beury.....	J. F. Logan.....	Poca No. 3	6-0	fan	185	609
Wm. J. Beury.....	J. F. Logan.....	Poca No. 3	6-0	fan		610
L. E. Tierney.....	H. F. Creakman.....	Poca No. 3	7-0	fan	115	611
Morris Watts.....	John Yost.....	Poca No. 3	5-9	fan	130	612
A. D. Rice.....	H. H. Taylor.....	Poca No. 3	5-0	fan	124	613
Wm. V. Cummins, G. M.	W. L. Marshall.....	Poca No. 3	5-2	fan	85	614
Morris Watts.....	Alfred Hall.....	Poca No. 3	5-9	fan	115	615
Jairus Collins.....	T. B. White.....	Poca No. 3	6-0	fan	110	616
H. W. Rawson.....	J. C. Lovern.....	Poca No. 3	5-4	2 fans	175	617
T. J. Oniel.....	E. Sheets.....	Poca No. 3	4-8	fan	217	618
T. J. Oniel.....	R. S. Whittington.....	Poca No. 3	4-8	fan		619
J. E. Jones, G. M.	Ellis Sheets.....	Poca No. 3	5-6	fan	190	620
J. E. Jones, G. M.	C. W. Atkinson.....	Poca No. 3	7-6	fan	290	621
J. E. Jones, G. M.	C. W. Atkinson.....	Poca No. 3	8-0	fan	315	622
J. E. Jones, G. M.	C. W. Atkinson.....	Poca No. 3	7-6	fan	310	623
J. E. Jones, G. M.	R. S. Whitehead.....	Poca No. 3	7-6	fan	475	624
J. E. Jones, G. M.	R. S. Whitehead.....	Poca No. 3	7-6	fan		625
J. E. Jones, G. M.	W. H. Walters.....	Poca No. 3	10-6	fan	28	626
A. D. Rice.....	J. M. Watt.....	Poca No. 3	4-10	fan	80	627
A. D. Rice.....	J. M. Watt.....	Poca No. 3	4-10	fan		628
R. S. Ord.....	J. R. Little.....	Poca No. 3	8-0	fan	183	629
W. F. Heatherman.....	K. Heatherman.....	Welch	5-10	fan	52	630
G. S. Borden.....	C. H. Rhodes.....	Poca No. 3	4-6	fan	140	631
G. S. Borden.....	Jos. Allsop.....	Poca No. 3	4-6	fan	118	632
G. S. Borden.....	S. D. Cromer.....	Poca No. 3	4-6	fan	101	633
Paris Chester.....	John Carter.....	War Creek	4-6	furnace	20	634
H. M. Meyers.....	B. C. Cordle.....	War Creek	5-10	furnace	46	635
H. M. Meyers.....						636
C. L. Perkins.....	C. L. Perkins.....	War Creek	4-3	furnace	13	637
H. M. Myers.....	B. C. Cordle.....	War Creek	4-0	furnace	12	638
W. L. Robinson.....	Wm. Powell.....	War Creek	6-4	fan	26	639
Geo. Smith.....	Geo. Smith.....	Poca No. 3	3-6	furnace	16	640
John Stewart.....	W. P. Femey.....	Welch	4-6	} fan	55	641
John Stewart.....	W. P. Femey.....	Welch	4-6			642
John Stewart.....	John Peel.....	Welch	4-6	fan	36	643
John Stewart.....	John Peel.....	Welch	4-6	fan		644
John Stewart.....	J. L. Vance.....	Welch	4-6	fan	57	645
John Stewart.....	J. L. Vance.....	Welch	4-6	fan		646
John Stewart.....	Jno. Clark.....	War Creek	4-0	fan	50	947
R. M. Peck.....	R. H. Gully.....	Welch	4-0	fan	25	648
T. J. Flanagan.....	M. J. Finley.....	Welch	5-4	natural		649
J. C. Saunders.....	T. N. Dougherty.....	Welch	4-0	} furnace	75	650
J. C. Saunders.....	T. N. Dougherty.....	Welch	4-0			651
J. C. Saunders.....	T. N. Dougherty.....	Welch	4-0	} fan	111	652
Wm. McFarland.....	W. A. Lilly.....	Welch	3-6			653
Wm. McFarland.....	A. D. Short.....	Welch	3-5	fan	138	654
D. M. Woody.....	C. P. Woody.....	Welch	4-0	fan	70	655
D. M. Woody.....	J. B. Lacey.....	Welch	4-0	fan	35	656
D. M. Woody.....	J. B. Lacey.....	Welch	4-0	fan		657
D. M. Woody.....	Kerby Brogan.....	Welch	4-0	fan	35	658
D. M. Woody.....	M. J. Brogan.....	Welch	4-0	fan	70	659
D. M. Woody.....	Kerby Brogan.....	Welch	4-0	fan	24	660
D. M. Woody.....	C. P. Woody.....	Welch	4-0	fan	9	661
D. M. Woody.....	C. P. Woody.....	Welch	4-0	fan	22	662
M. J. Riley.....	P. Driman.....	Welch	3-11	fan	114	663
M. J. Riley.....	L. S. Gilley.....	Welch	3-2	fan	67	664

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Open- ing.	Post Office Address.
<i>McDowell County—Con't.</i>						
665	Elev 'th	Superior-Pocahontas C. Co	1130	Helena	2 drifts	Hallsville
666	Elev 'th	Superior-Pocahontas C. Co	1134	Davy Crockett	drift	Hallsville
667	Elev 'th	Superior-Pocahontas C. Co	1131	No. 4	drift	Hallsville
668	Elev 'th	Superior-Pocahontas C. Co	1132	No. 5	drift	Hallsville
669	Elev 'th	The Pando Coal Co.	1135	Pando No. 1	drift	Pando
670	Elev 'th	The Pando Coal Co.	1136	Pando No. 2	drift	Pando
671	Elev 'th	Atlas-Pocahontas Coal Co.	1138	Antler No. 3	drift	Antler
672	Elev 'th	Atlas-Pocahontas Coal Co.	1137	aAntler No. 4	drift	Antler
673	Elev 'th	Oregon Coal Co.	1139	Imo	drift	Hemphill
674	Elev 'th	Oregon Coal Co.	1140	McClaren	drift	Hemphill
675	Elev 'th	Slick Rock Coal Co.	1141	Slick Rock	drift	Welch
676	Elev 'th	Jed Coal & Coke Co.	1142	Jed	shaft	Jed
677	Elev 'th	United States Coal & C. Co	1143	No. 1	shaft	Gary
678	Elev 'th	United States Coal & C. Co	1144	No. 2	drift	Gary
679	Elev 'th	United States Coal & C. Co	1145	No. 3	drift	Gary
680	Elev 'th	United States Coal & C. Co	1146	No. 4	drift	Gary
681	Elev 'th	United States Coal & C. Co	1147	No. 5	drift	Gary
682	Elev 'th	United States Coal & C. Co	1148	No. 6	drift	Gary
683	Elev 'th	United States Coal & C. Co	1149	No. 7	drift	Gary
684	Elev 'th	United States Coal & C. Co	1150	No. 8	2 drifts	Gary
685	Elev 'th	United States Coal & C. Co	1151	No. 9	2 drifts	Gary
686	Elev 'th	United States Coal & C. Co	1152	No. 10	drift	Gary
687	Elev 'th	United States Coal & C. Co	1153	No. 11	2 drifts	Gary
688	Elev 'th	United States Coal & C. Co	1154	No. 12	drift	Gary
689	Elev 'th	Central Pocahontas C. Co	1187	Anawalt	drift	Gary
690	Elev 'th	Black Wolf Coal & Coke Co	1155-6	No. 4	2 drifts	Dearing
691	Elev 'th	Page Coal & Coke Co.	1157	No. 1	drift	Pageton
692	Elev 'th	Page Coal & Coke Co.	1158	No. 2	drift	Pageton
693	Elev 'th	Page Coal & Coke Co.	1159	No. 3	drift	Pageton
694	Elev 'th	Welch Coal & Coke Co.	1160	Welch	drift	Welch
695	Elev 'th	Hemphill Colliery Co.	1161	Hemphill	drift	Welch
696	Elev 'th	Middle States Coal & C. Co	1162	No. 11	shaft	Olmsted
697	Elev 'th	Dixon-Pocahontas Fuel Co	1163	North	shaft	Olmsted
698	Elev 'th	Dixon-Pocahontas Fuel Co	1164	South	shaft	Olmsted
699	Elev 'th	Cirrus Coal & Coke Co.	1145	No. 1	slope	Big Four
700	Elev 'th	Cirrus Coal & Coke Co.	1165a	J No. 2	slope	Big Four
701	Elev 'th	Virginia Fuel Co.	1166	Virginia	slope	Big Four
702	Elev 'th	The King Coal Co.	1167	King	slope	Vivian
703	Elev 'th	The Tidewater Coal & C. Co	1168	Tidewater	drift	Vivian
704	Elev 'th	Bottom Creek Coal & C. Co	1169	Bottom Creek	drift	Vivian
705	Elev 'th	Peerless Coal & Coke Co.	1170	Peerless	drift	Vivian
706	Elev 'th	The Empire Coal & C. Co.	1171	Empire	drift	Landgraff
707	Elev 'th	Shawnee Coal & Coke Co.	1172	Shawnee	drift	Eckman
708	Elev 'th	Eureka Coal & Coke Co.	1173	Enreka	drift	Eckman
709	Elev 'th	Pulaski Iron Co.	1174	Pulaski No. 1	drift	Eckman
710	Elev 'th	Pulaski Iron Co.	1175	Pulaski No. 2	drift	Eckman
711	Elev 'th	Keystone Coal & Coke Co.	1176	No. 1	drift	Keystone
712	Elev 'th	Keystone Coal & Coke Co.	1177	No. 2	drift	Keystone
713	Elev 'th	Lynchburg Coal & Coke Co.	1178	Lynchburg	drift	Kyle
714	Elev 'th	Powhatan Coal & Coke Co.	1179	Powhatan	drift	Powhatan
715	Elev 'th	Upland Coal & Coke Co.	1180	No. 1	drift	Elkhorn
716	Elev 'th	Houston Coal & Coke Co.	1181	No. 1	drift	Elkhorn
717	Elev 'th	Houston Coal & Coke Co.	1182	No. 2	drift	Elkhorn
718	Elev 'th	Crozer Coal & Coke Co.	1183	No. 1	drift	Elkhorn
719	Elev 'th	Crozer Coal & Coke Co.	1184	No. 2	drift	Elkhorn
720	Elev 'th	Turkey Gap Coal & Coke Co.	1185	Turkey Gap	drift	Ennis
721	Elev 'th	Flat Top Coal & M'f'g Co.	1110	Flat Top	drift	English
722	Elev 'th	Hurricane Branch Coal Co.	1111	Huffer	drift	Lex
723	Elev 'th	Henrietta Coal & Coke Co.	1191	Henrietta	drift	English
<i>Wyoming County.</i>						
724	Elev 'th	n William Tolliver	1186	n Rich Knob	drift	Maben

n No Report. Claims to not be subject to Mine Law.

f Just being opened. *a* Abandoned.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
M. J. Riley	John Pirkey	Welch	3-0	fan	34	665
M. J. Riley	L. S. Gilley	Welch	3-0	fan		666
M. J. Riley	P. L. Boyd	Welch	3-8	fan		667
M. J. Riley	Joe Pirrung	Welch	2-11	fan		668
Geo. S. Green	Sidney Yost	Davy	3-0	3 fans	74	669
Geo. S. Green	Sidney Yost	Welch	4-0			670
J. A. Henchey	H. Sheppard	Welch	3-0	fan	52	671
		Welch	3-0	natural		672
C. W. Peters	John Kirby	Welch	4-8	fan	113	673
C. W. Peters	John Kirby	Welch	4-8	fan		674
J. E. Jones	Jos. McBrayer	Welch	4-0	fan	30	675
Wm. Leckie	J. R. Davis	Poca No. 3	5-6	fan	177	676
F. E. King	J. M. Langton	Poca No. 3	5-9	fan	243	677
		Poca No. 4	6-0			
E. M. Esser	M. Connelly	Poca No. 4	6-0	fan	394	678
W. A. Wilson	M. P. Brady	Poca No. 4	4-10	fan	180	679
J. H. Petty	Lees Sexton	Poca No. 3	8-0	fan	148	680
J. H. Petty	Morris Wiley	Poca No. 3	7-0	fan	72	681
John Kerns	Jno. Maurill	Poca No. 4	6-6	fan	238	682
F. A. Kearns	A. H. Hahn	Poca No. 4	7-0	fan	169	683
G. N. Harris	John Gates	Poca No. 4	6-0	2 fans	100	684
S. H. Graham	M. M. McParland	Poca No. 4	7-6	2 fans	114	685
R. W. Mercer	J. V. Rhodes	Poca No. 3	4-6	fan	98	686
J. H. Dunn	J. L. Mullen and Geo. Hawthorn	Poca No. 3	5-6	fan	151	687
		Poca No. 4	5-0			
H. T. Graham	J. M. Bryan	Poca No. 3	8-3	fan	105	688
G. T. Farrow	G. T. Farrow	Poca No. 3	8-0	natural	8	689
E. C. Berkeley	Arthur Sturm	Poca No. 4	6-0	fan	63	690
J. R. Bailey	J. A. Gallimore	Poca No. 3	7-0	fan	190	691
J. R. Bailey	H. T. Hanna	Poca No. 3	7-0	fan		692
J. A. Bailey	H. T. Hanna	Poca No. 3	7-0	fan		693
F. J. Baxter	James McBrayer	Welch	4-6	fan	60	694
F. J. Baxter	Wm. Spicer	Welch	4-6	fan	53	695
H. Olmsted	D. E. Evans	Poca No. 4	5-0	fan	127	696
Carel Robinson	Dan Parker	Poca No. 4	4-6	fan	55	697
Carel Robinson	M. Lilly	Poca No. 3	4-6	fan	59	698
T. A. Shewey	E. J. Flanagan	Poca No. 3	5-6	fan	57	699
T. A. Shewey		Poca No. 3	5-6			700
J. A. Staton	John Flanagan	Poca No. 4	4-6	fan	20	701
W. C. Easley	Sam'l Campbell	Poca No. 3	6-0	fan	140	702
W. C. Easley	Sam'l Campbell	Poca No. 3	6-0	3 fans	140	703
G. S. Patterson	W. J. Bell	Poca No. 3	5-10	fan	189	704
R. Y. Luther	J. O. Smith	Poca No. 3	6-6	fan	146	705
Wm. D. Ord	T. R. Barrett	Poca No. 3	5-10	fan	237	706
Morris Watts	M. A. Sexton	Poca No. 3	6-9	fan	120	707
L. E. Tierney	J. Whitehead	Poca No. 3	7-0	fan	140	708
P. Johnson	J. M. Shank	Poca No. 3	6-2	fan	240	709
P. Johnson	J. M. Shank	Poca No. 3	6-2	fan		710
J. K. F. Steele	G. B. Smith	Poca No. 3	6-3	fan	175	711
J. K. F. Steele	G. B. Smith	Poca No. 3	6-3	fan		712
L. E. Tierney	Thos. Fitzsimmons	Poca No. 3	7-0	fan	170	713
L. E. Tierney	J. F. Lynch	Poca No. 3	7-0	2 fans	140	714
Jno. J. Lincoln	J. A. Grantham	Poca No. 3	7-8	fan	175	715
B. Lewis	C. Kershaw	Poca No. 3	8-0	fan	199	716
B. Lewis	Geo. Guy	Poca No. 3	8-0			717
E. H. Evans	J. McCrickard	Poca No. 3	8-0	fan	262	718
E. H. Evans	J. McCrickard	Poca No. 3	8-0			719
E. J. McQuail	J. P. Johnson	Poca No. 3	8-0	2 fans	265	720
J. G. Thomas	E. L. Dale	War Creek	4-6	fan	24	721
J. E. Hufford	J. J. Reynolds	Poca No. 4	3-0	furnace	12	722
C. K. Beach	M. A. Hurley	Poca No. 4	3-0	furnace	18	723
		Poca No. 4	2-6	natural		724

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series. No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Lincoln County.</i>						
725	oTwelfth	Branchland Coal Co.....	1201	Branchland.....	drift	Branchland.....
726	Twelfth	Kenova Coal Mining Co.....	1275	Kenova.....	drift	Branchland.....
727	Twelfth	Kenova Coal Mining Co.....	1276	Coaling Station.....	drift	Branchland.....
<i>Logan County.</i>						
728	Twelfth	Prudential Coal & Min. Co.....	1205	* Prudential.....	drift	Big Creek.....
729	Twelfth	Stone Branch Coal Co.....	1206	No. 1.....	drift	Stone Branch.....
730	Twelfth	Stone Branch Coal Co.....	1206a	No. 2.....	drift	Stone Branch.....
731	Twelfth	Stone Branch Coal Co.....	1206b	No. 3.....	drift	Stone Branch.....
732	Twelfth	Stone Branch Coal Co.....	1206c	No. 4.....	drift	Stone Branch.....
733	Twelfth	Stone Branch Coal Co.....	1206d	No. 5.....	shaft	Stone Branch.....
734	Twelfth	Stone Branch Coal Co.....	1206e	No. 6.....	drift	Stone Branch.....
735	Twelfth	Stone Branch Coal Co.....	1206f	No. 7.....	drift	Stone Branch.....
736	Twelfth	Stone Branch Coal Co.....	1206g	No. 8.....	drift	Stone Branch.....
737	Twelfth	Big Creek Coal Co.....	1207	Big Creek.....	drift	Kitchen.....
738	Twelfth	E. R. Johnson C. Min'g Co.....	1208	Johnson.....	drift	Logan.....
739	Twelfth	Draper Coal & Coke Co.....	1209	Draper.....	drift	Logan.....
740	Twelfth	H. T. Wilson Coal Co.....	1210	Wilson.....	drift	Logan.....
741	Twelfth	Fort Branch Coal Co.....	1211	Fort Branch.....	drift	Fort Branch.....
742	Twelfth	Price Coal Co.....	1212	Price.....	drift	Ethel.....
743	Twelfth	Rex Coal Co.....	1213	Rex.....	drift	Ethel.....
744	Twelfth	The Logan Coal Co.....	1214	Logan No. 1.....	drift	Ethel.....
745	Twelfth	The Ethel Coal Co.....	1215	Ethel.....	drift	Ethel.....
746	Twelfth	The Monitor Coal Co.....	1216	Monitor.....	drift	Logan.....
747	Twelfth	The Monitor Coal Co.....	1217	Beechwood.....	drift	Logan.....
748	Twelfth	The Yuma Coal & Coke Co.....	1218	Yuma.....	drift	Logan.....
749	Twelfth	The Gay Coal & Coke Co.....	1219	Gay.....	drift	Logan.....
750	Twelfth	Cora Coal & Coke Co.....	1220	Cora.....	drift	Logan.....
751	Twelfth	United States Coal & Oil Co.....	1221	Island Creek No. 1.....	drift	Holden.....
752	Twelfth	United States Coal & Oil Co.....	1222	Island Creek No. 2.....	drift	Holden.....
753	Twelfth	United States Coal & Oil Co.....	1223	Island Creek No. 3.....	drift	Holden.....
754	Twelfth	United States Coal & Oil Co.....	1224	Island Creek No. 4.....	drift	Holden.....
755	Twelfth	United States Coal & Oil Co.....	1225	Island Creek No. 5.....	drift	Holden.....
756	Twelfth	United States Coal & Oil Co.....	1226	Island Creek No. 6.....	drift	Holden.....
757						
<i>Mingo County.</i>						
758	Twelfth	Pearl Coal Mining Co.....	1230	Haggerty.....	drift	Dingess.....
759	Twelfth	Ajax Coal Co.....	1232	Mattie May.....	drift	Eugene.....
760	Twelfth	g Naugatuck Coal Co.....	1233	Blockton.....	drift	Blockton.....
761	Twelfth	Warfield Coal Co.....	1234	Warfield.....	shaft	Kermit.....
762	Twelfth	w Lemoin Coal Co.....	1238	Lemoin.....	drift	Hatfield.....
763	Twelfth	Chattaroy Colliery Co.....	1239	Chattaroy.....	5 drifts	Chattaroy.....
764	Twelfth	The Buffalo Collieries Co.....	1240	Buffalo.....	drift	Chattaroy.....
765	Twelfth	Lingohocken Coal Co.....	1241	No. 5.....	drift	Chattaroy.....
766	Twelfth	Lingohocken Coal Co.....	1241a	No. 6.....	drift	Chattaroy.....
767	Twelfth	Lingohocken Coal Co.....	1241b	No. 7.....	drift	Chattaroy.....
768	Twelfth	Lingohocken Coal Co.....	1241c	No. 8.....	drift	Chattaroy.....
769	Twelfth	Howard Colliery Co.....	1242	Howard.....	drift	Chattaroy.....
770	Twelfth	Winifrede Consol. Coal Co.....	1243	Sugar Tree.....	5 drifts	Goodman.....
771	Twelfth	Williamson Coal & Coke Co.....	1246	Williamson No. 3.....	drift	Williamson.....
772	Twelfth	W. T. Poole Coal Co.....	1245	Williamson No. 1.....	drift	Williamson.....
773	Twelfth	Rawl Coal & Coke Co.....	1247	No. 1.....	drift	Rowl.....
774	Twelfth	Rawl Coal & Coke Co.....	1248	No. 2.....	drift	Rowl.....
775	Twelfth	# White Star Mining Co.....	1250	Commercial.....	drift	Merrimac.....
776	Twelfth	White Star Mining Co.....	1249	Coaling Station.....	drift	Merrimac.....
777	Twelfth	Belvedere Gas Coal Co.....	1251	i Alma.....	drift	Sprigg.....
778	Twelfth	Marvin Coal Co.....	1252	Marvin.....	drift	Matewan.....
779	Twelfth	Red Jacket Cons. C. & C. Co.....	1253	Rutherford.....	drift	Red Jacket.....
780	Twelfth	Red Jacket Cons. C. & C. Co.....	1254	Logan.....	drift	Red Jacket.....
781	Twelfth	Red Jacket Cons. C. & C. Co.....	1255	Red Jacket.....	drift	Red Jacket.....
782	Twelfth	Red Jacket Cons. C. & C. Co.....	1259	a Maritime.....	drift	Thacker.....
783	Twelfth	Red Jacket Cons. C. & C. Co.....	1262	Lick Fork.....	drift	Red Jacket.....
784	Twelfth	Red Jacket Cons. C. & C. Co.....	1264	Grapevine.....	drift	Red Jacket.....
785	Twelfth	Mate Creek Coal Co.....	1256	i No. 1.....	drift	Matewan.....

o Twelfth District—Patrick A. Grady, Inspector. * Prospect openings.

w Formerly Hatfield Colliery Co. a Abandoned. i Idle all year.

g Formerly The Walnut Hill C. & M. Co. * Idle since February 1, 1908.

NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thick- ness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
J. C. Fennimore.....	Lon Reeves.....	Kanawha.....	6-0.....	furnace.....	64	725
G. A. Blowers.....	G. A. Blowers.....	Up. Fr'pt.....	5-6.....	furnace.....	15	726
G. A. Blowers.....	G. A. Blowers.....	Up. Fr'pt.....	5-6.....		5	727
J. F. Kent, Mgr.....	Geo. Castle.....	Camp. Crk.....	4-6.....	furnace.....		728
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede.....	4-4.....			729
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede.....				730
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede.....				731
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede.....				732
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede.....				733
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede.....				734
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede.....				735
J. F. Kent, Mgr.....	Geo. Castle.....	Winifrede.....				736
W. T. Oliver.....	John Erly.....	Winifrede.....	3-11.....	furnace.....	37	737
R. O. Heyser.....	Jas. Brown.....	Winifrede.....	4-0.....	fan.....	41	738
R. O. Heyser.....	F. R. Kitchen.....	Winifrede.....	4-0.....	furnace.....	66	739
R. O. Heyser.....	B. B. Wilson.....	Winifrede.....	4-0.....	fan.....	65	740
J. E. Cooper.....	J. E. Bolan.....	Winifrede.....	4-6.....	fan.....	24	741
C. E. Price.....	J. R. Price.....	Winifrede.....	5-0.....	fan.....	40	742
J. P. Kinzer.....	G. H. Bolen.....	Winifrede.....	5-8.....	furnace.....	25	743
J. P. Small.....	W. L. McGinnis.....	Winifrede.....	5-0.....	furnace.....	62	744
C. A. Devenny, Mgr.....	M. Hall.....	Winifrede.....	5-8.....	furnace.....	53	745
J. E. Barlow.....	E. M. Stephens.....	Winifrede.....	6-6.....	fan.....	105	746
J. E. Barlow.....	R. B. Barlow.....	Winifrede.....	6-6.....	fan.....	57	747
C. K. Robertson.....	W. L. Stevens.....	Winifrede.....	6-4.....	fan.....	45	748
H. S. Gay.....	F. Killerman.....	Winifrede.....	5-6.....	fan.....	50	749
C. W. Jones.....	E. B. Truax.....	Winifrede.....	6-0.....	fan.....	43	750
Paul Hardy.....	E. A. Sharps.....	No. 2 Gas.....	6-6.....	fan.....	261	751
Paul Hardy.....		No. 2 Gas.....	6-6.....	2 fans.....	268	752
Paul Hardy.....	H. Poirier.....	No. 2 Gas.....	6-6.....	fan.....	91	753
Paul Hardy.....	H. Poirier.....	No. 2 Gas.....	6-6.....	fan.....	81	754
Paul Hardy.....	W. B. Sims.....	No. 2 Gas.....	6-6.....			755
Paul Hardy.....	W. B. Sims.....	No. 2 Gas.....	6-6.....	fan.....	108	756
						757
Thos. Thompson.....	J. W. Murphy.....	Lo. Kit'g.....	3-4.....	fan.....	27	758
		Winifrede.....	5-0.....	furnace.....		759
S. W. Perry.....	L. J. Blankenship.....	Coalburg.....	4-10.....	furnace.....	67	760
P. D. Pinson.....	B. D. Pinson.....	Lo. Kit'g.....	4-6.....	furnace.....	31	761
J. W. Malsby.....	T. F. Smith.....	Winifrede.....	4-6.....	furnace.....	30	762
O. E. Taber.....	A. M. Taber.....	Winifrede.....	5-6.....	furnace.....	65	763
S. V. Preston.....	Geo. Winburn.....	Winifrede.....	4-4.....	fan.....	71	764
W. P. Buckwalter.....	J. H. Boisdén, Jr.....	Winifrede.....	5-0.....			765
W. P. Buckwalter.....	J. H. Boisdén, Jr.....	Winifrede.....	5-0.....			766
W. P. Buckwalter.....	J. H. Boisdén, Jr.....	Winifrede.....	5-0.....			767
W. P. Buckwalter.....	J. H. Boisdén, Jr.....	Winifrede.....	5-0.....			768
W. S. Estler.....	R. G. Claytor.....	Winifrede.....	6-0.....	fan.....	85	769
W. A. Lindsey.....	J. T. Stevens.....	Winifrede.....	6-6.....	furnace.....	40	770
L. B. Ramsey.....	S. C. Fisher.....	Winifrede.....	6-0.....	furnace.....	47	771
W. T. Poole.....	B. Price.....	M. Kit'g.....	4-4.....	furnace.....	20	772
R. N. Taylor.....	Lyss. Webb.....	Lo. Kit'g.....	4-4.....	furnace.....	20	773
R. N. Taylor.....	Lyss. Webb.....	Lo. Kit'g.....	4-4.....	fan.....	25	774
Geo. W. Welch.....	Geo. W. Monnon.....	Lo. Kit'g.....	3-3.....	fan.....		775
Geo. W. Welch.....	Geo. W. Monnon.....	Lo. Kit'g.....	3-3.....	furnace.....		776
W. H. Adams.....		Br'wst'n.....	3-6.....	furnace.....		777
J. A. Williams.....	W. H. Artis.....	Br'wst'n.....	3-4.....	furnace.....	60	778
W. A. Wilson.....	Wm. Quissbury.....	Thacker.....	4-6.....	fan.....	60	779
W. A. Wilson.....	C. Scaggs.....	Thacker.....	4-6.....	fan.....	11	780
W. A. Wilson.....	James Booth.....	Thacker.....	4-6.....	fan.....	106	781
		Thacker.....	4-6.....	fan.....		782
J. H. Glass.....	W. Stevens.....	Thacker.....	6-6.....	furnace.....	75	783
J. H. Glass.....	Wm. Musser.....	Thacker.....	7-3.....	furnace.....	68	784
		M. Kit'g.....	4-2.....	furnace.....		785

**DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30th, 1909.**

No.	District.	Name of Company.	Series No.	Name of Mine.	Kind of Opening.	Post Office Address.
<i>Mingo County—Con't.</i>						
786	Twelfth	Mate Creek Coal Co.....	1257	<i>i</i> No. 2.....	drift ..	Matewan
787	Twelfth	Lynn Coal & Coke Co.....	1258	Lynn.....	drift ..	Thacker
788	Twelfth	Thacker Coal & Coke Co ..	1260	No. 2.....	drift ..	Thacker Mines..
789	Twelfth	Thacker Coal & Coke Co ..	1261	No. 3.....	drift ..	Thacker Mines..
790	Twelfth	Thacker Fuel Co.....	1263	No. 10.....	drift ..	New Thacker....
791	Twelfth	Majestic Collieries Co.....	1265	<i>i</i> Cedar.....	drift ..	Cedar
792	Twelfth	Glen Alum Coal Co	1266	No. 1.....	drift ..	Glen Alum
793	Twelfth	Glen Alum Coal Co	1267	No. 2.....	drift ..	Glen Alum
794	Twelfth	War Eagle Coal Co.....	1271	<i>i</i> War Eagle.....	drift ..	War Eagle.....
795	Twelfth	War Eagle Coal Co.....	1269	Pappoose	drift ..	War Eagle.....
796	Twelfth	War Eagle Coal Co.....	1270	Mephisto	drift ..	War Eagle.....
797	Twelfth	War Eagle Coal Co.....	1268	<i>i</i> Star	drift ..	War Eagle.....
798	Twelfth	Margaret Mining Co	1272-3	Margaret	drift ..	War Eagle.....
799	Twelfth	The Mingo Block Coal Co...	1274	‡Nos. 1, 2, 3, 4 & 5 ..	5 drifts	Williamson
<i>Wayne County.</i>						
800	Twelfth	East Lynn Coal Co.....	1227-9	Nos. 1, 2 & 3.....	3 drifts	East Lynn.....

‡ Prospect openings. *i* Idle all year.

**NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.**

Name of Superin- tendent.	Name of Mine Fore- man.	Name of Coal Bed Worked.	Thickness. Ft. In.	Kind of Ventilation.	Total Inside Employees.	No.
		Thacker	4-0	furnace		786
James Collins	S. T. Lambert	Thacker	4-6	furnace	32	787
James Collins	Chas. Sigman	Thacker	6-0	fan	42	788
James Collins	Peter Kerr	Thacker	6-0	fan	152	789
James Collins	H. Chapple	Thacker	6-0	furnace	77	790
A. B. Rawn		Lo. Kit'g	2-8	furnace		791
E. C. Lambert	J. H. Gent	Thacker	5-0	fan	} 204	792
E. C. Lambert	F. McClusky	Thacker	5-0	fan		793
		Thacker	6-0	fan		794
Geo. W. Coffey	J. K. Coffey	M. Kit'g	6-0	furnace	78	795
Geo. W. Coffey	Jno. Earnest	M. Kit'g	6-0	furnace	95	796
		Lo. Kit'g	5-4	fan		797
S. T. Lambert	H. H. Kelley	Thacker	5-6	fan	58	798
		Thacker	8-6			799
		No. 2 Gas	4-0	natural		
Okey Layo	Okey Layo	Winifrede	3-6	2 furnaces	57	800

ACCIDENTS.

TABLE SHOWING THE FATAL AND NON-FATAL ACCIDENTS IN THE STATE, BY COUNTIES, AND THEIR CAUSES, 1909.—Continued.

COUNTIES.	Totals.																	Sum Total.		
	F.	N. F.	Mine Props.	Mine Cages.	Flying Coal.	Coke Oven.	Blown Through Shot.	Mining Ma-chines.	Mine Pump.	Explosion of Powder.	Explosion of Smoke.	Explosion of Dy-namite Caps.	Scalded by Steam.	Miscellaneous (Inside).	Miscellaneous (Outside).	Flying Steel.				
Brooke																		1		
Hancock																		4		
Marion																		53		
Marshall																		1		
Harrison																		89		
Upshur																		4		
Barbour																		1		
Monongalia																		2		
Preston																		19		
Taylor																		4		
Grant																		1		
Mineral																		2		
Randolph																		1		
Tucker																		2		
Braxton																		38		
Mason																		3		
Putnam																		5		
Fayette																		6		
Kanawha																		3		
Nicholas																		221		
Raleigh																		55		
Mercer																		17		
McDowell																		56		
Logan																		21		
Mingo																		18		
Totals	5	6	1	3	217	1	2	15	1	2	9	1	3	4	322	524	2	334	1,032	1,365

COMPARATIVE STATEMENT OF THE NUMBER OF MEN EMPLOYED, MEN KILLED, AND THE PRODUCTION
OF COAL FROM 1883 TO 1909. (COMMERCIAL MINES.)

FOR THE YEAR ENDING	Number of Inside Employees.	Number of Out- side Employees.	Total Employees, (excluding Coke Men.)	Killed by falls of coal, slate and roof.	Killed by Cars.	Killed by Explo- sions.	Killed by Other Causes.	Total Killed.	Total tons of coal mined (tons of 2,240 lbs.)	Tons mined for each inside em- ploye.	Tons mined for each person kill- ed inside.	No. of persons killed inside for every 1,000 in- side employees.	No. inside em- ployes for every person killed in- side.
December 31, 1883.....	5,343	1,051	6,394	17	3	.....	.....	20	2,805,565	525	147,681	3.55	281
December 31, 1884.....	4,627	1,724	6,351	16	4	3	.....	23	2,901,642	627	150,404	3.64	274
December 31, 1885.....	5,486	1,806	7,292	16	4	3	.....	23	3,008,091	548	73,024	7.23	138
December 31, 1886.....	6,081	1,181	7,262	4	2	39	3	48	3,213,093	528	187,394	4.26	234
January 8, 1887, to June 30, 1888.....	7,269	1,187	8,456	27	2	.....	.....	31	5,809,223	799	415,189	1.41	706
June 30, 1889.....	7,764	1,242	9,006	9	.....	.....	.....	13	4,503,859	588	255,168	2.61	382
June 30, 1890.....	9,173	2,324	11,497	21	2	2	.....	27	5,643,945	615	251,084	2.78	350
June 30, 1891.....	10,434	2,380	12,813	22	4	.....	.....	36	7,281,430	690	222,216	2.90	336
June 30, 1892.....	11,776	2,118	13,894	27	6	.....	.....	36	7,777,570	660	145,642	4.71	212
June 30, 1893.....	11,776	2,118	13,894	54	8	5	.....	72	9,758,054	686	171,419	3.50	285
June 30, 1894.....	14,204	1,086	15,290	49	6	.....	.....	59	9,428,065	601	124,988	4.73	211
June 30, 1895.....	15,682	1,902	17,584	51	12	12	.....	65	11,937,468	589	205,818	2.86	349
June 30, 1896.....	16,692	1,896	18,588	48	7	1	.....	55	11,571,900	678	192,865	3.51	284
June 30, 1897.....	20,257	2,047	22,304	47	12	2	.....	87	14,154,865	761	186,248	4.08	244
June 30, 1898.....	17,069	2,740	19,809	67	12	2	.....	88	16,100,150	820	203,799	4.02	248
June 30, 1899.....	19,634	2,461	22,095	64	13	4	.....	89	18,736,911	858	140,879	6.09	164
June 30, 1900.....	21,820	2,815	24,635	61	15	57	.....	141	20,115,991	782	186,247	4.70	212
June 30, 1901.....	25,693	3,467	29,160	76	20	29	5	130	23,179,083	836	210,718	3.96	252
June 30, 1902.....	27,720	4,023	31,743	79	23	7	11	120	22,733,698	743	154,651	4.82	207
June 30, 1903.....	30,450	5,151	35,601	96	19	32	12	159	26,814,715	738	218,006	3.38	295
June 30, 1904.....	36,316	5,665	41,981	95	23	12	10	140	31,325,029	785	177,372	4.41	227
June 30, 1905.....	39,903	5,875	45,778	105	28	39	22	168	37,223,474	910	148,894	6.11	163
June 30, 1906.....	40,865	6,531	47,396	99	26	114	29	204	30,840,311	903	123,026	7.34	136
June 30, 1907.....	44,147	7,309	51,456	139	38	159	20	356	38,187,010	801	62,689	12.24	189
June 30, 1908.....	48,938	7,555	56,493	158	41	382	44	625	38,187,010	821	114,048	6.72	149
June 30, 1909.....	50,507	11,622	62,129	137	41	124	02	364	41,513,766	821	217,723	3.52	284
Totals.....	556,502	88,589	645,091	1,568	363	1,032	285	3,258	426,520,008	766			

*Accidents for Second District only. †No report for First District.

FATAL ACCIDENTS, BY CAUSES, IN WEST VIRGINIA, 1883 TO 1909, INCLUSIVE.

CAUSES.	Year Ending Dec. 31st.				Jan. 1st, 1887, to June 30, 1888.		Year Ending June 30th.																Totals.	Per Centage			
	1883	1884	1885	1886	1889	1890†	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906			1907	1908	1909
Fail of roof, coal, etc.	17	16	4	27	9	21	22	27	54	49	51	48	47	67	64	61	76	79	96	95	105	99	139	158	144	1,575	48.49
Cars	3	4	2	2	2	2	4	6	8	6	12	8	7	12	13	15	20	23	19	23	28	26	38	40	41	302	11.15
Explosions	.....	3	38	.....	.....	2	5	2	5	.....	12	1	2	2	4	57	29	7	32	12	39	114	139	377	129	1,032	31.77
Other	.....	.....	3	2	4	2	5	1	5	4	8	6	6	6	8	8	5	11	12	10	22	29	20	50	50	273	8.59
Totals	20	23	48	31	13	27	36	36	72	59	83	65	62	87	89	141	130	120	159	140	194	268	356	625	364	3,248	100.00

* No report.

† No report for First Mining District.

FATAL ACCIDENTS INSIDE AND OUTSIDE FROM 1883 TO 1892.
INCLUSIVE.

Inside.

CAUSES.	1883	1884	1885	1886	1887-88	1889	1890	1891	1892	Totals.	Percent- age.
Falls of coal, slate and roof.....	17	16	4	27	2	9	21	22	27	143	67.14
Mine cars.....	2	1	1	1	2	1	1	2	5	14	6.57
Explosions of gas.....	no report	3	39	...	...	...	...	4	1	47	22.07
Explosions of powder, dust and blasts.....	...	...	...	...	...	2	1	1	1	4	1.87
Locomotives.....	...	...	...	2	2	...	...	...	...	5	2.35
Miscellaneous.....	...	...	...	...	...	...	...	...	1	...	...
Totals.....	19	20	44	31	11	24	29	35	35	213	100.00

Outside.

CAUSES.											
	1883	1884	1885	1886	*1887-88	1889	†1890	1891	1892	Totals.	Percent- age.
Cars.....	1	no report	3	1	1	1	1	2	1	9	42.86
Locomotives.....	...	...	...	2	...	...	2	5	...	12	9.52
Miscellaneous.....	...	...	...	...	...	1	2	...	10	47.62	
Totals.....	1	...	3	4	...	2	3	7	121	100.00	

* The accidents are for the 18 months from January 1st, 1887 to June 30, 1888.

† Accidents reported for 2d District only.

FATAL ACCIDENTS, INSIDE AND OUTSIDE, 1893 TO 1909, IN-
CLUSIVE.

Inside.

CAUSES.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	Totals.	Percent- age.
Falls of coal, roof and slate.....	54	49	51	48	47	67	64	61	76	79	596	71.12
Mine cars.....	5	4	9	4	6	6	7	6	11	11	76	9.07
Explosions of gas.....	...	...	...	...	1	1	...	50	10	...	61	7.28
Explosions of powder, dust and shots.....	5	...	15	1	2	1	4	6	19	7	60	7.16
Mules.....	...	...	...	...	...	...	...	...	1	...	1	.24
Mine machines.....	1	...	...	...	...	...	...	...	1	...	1	.24
Motors.....	...	...	...	...	...	...	...	1	...	...	1	.12
Locomotives.....	...	...	...	...	...	1	...	...	1	...	2	.84
Miscellaneous.....	12	2	12	5	33	4	...	12	12	11	33	3.93
Totals.....	67	55	79	58	60	76	79	133	121	110	838	100.00

Outside.

CAUSES.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	Totals.	Percent- age.
Cars.....	5	2	3	5	2	9	6	7	9	10	58	82.86
Machinery.....	...	...	...	...	...	1	1	...	...	...	2	2.86
Boiler Explosions.....	...	...	1	...	...	...	...	1	...	...	1	1.42
Locomotives.....	...	2	...	2	...	1	2	...	...	...	4	5.86
Miscellaneous.....	...	...	...	...	...	...	...	...	...	...	...	10.00
Totals.....	5	4	4	7	2	11	10	8	9	10	70	100.00

FATAL ACCIDENTS INSIDE AND OUTSIDE FROM 1903 TO 1909, INCLUSIVE.

Inside.

CAUSES.	1903	1904	1905	1906	1907	1908	1909	Totals.	Percent- age.
Falls of coal, roof and slate.....	96	95	105	99	139	155	144	833	42.52
Mine cars.....	12	12	18	16	20	28	31	137	6.99
Explosions of gas.....	24	3	1	4	29	2	3	66	3.37
Explosions of gas and dust.....				23	101			124	6.33
Explosions of dust, powder and shots.....	8	9	38	86	17	375	120	653	33.33
Animals.....	1		1	1			3	5	.41
Mine machines.....	1		1	1		2		5	.25
Motors.....			3	5	4	8	14	34	1.74
Locomotives.....	1	1		1	1			4	.21
Miscellaneous.....	4	3	9	14	13	27	25	95	4.85
Totals.....	147	123	176	250	324	599	340	1,959	100.00

Outside.

CAUSES.	1903	1904	1905	1906	1907	1908	1909	Totals.	Percent- age.
Cars.....	7	11	10	10	18	12	12	80	54.43
Machinery.....		1		1			1	5	3.40
Locomotives.....	2	1			1	1		5	3.40
Miscellaneous.....	3	4	8	7	13	11	11	57	38.77
Totals.....	12	17	18	18	32	26	24	147	100.00

TABLE SHOWING THE NUMBER OF PERSONS KILLED INSIDE, PER 1,000 INSIDE EMPLOYEES IN COAL MINES IN THE STATES OF PENNSYLVANIA, ILLINOIS, OHIO AND WEST VIRGINIA FOR THE YEAR 1908.

STATE.	Total Number of Inside Employees.	Total Number of Inside Fatal Accidents.	Number of Lives Lost per 1,000 Inside Employees.
Pennsylvania Anthracite.....	124,233	596	4.79
Pennsylvania Bituminous.....	152,535	550	3.61
Illinois.....	64,424	170	2.64
Ohio.....	50,267	112	2.23
West Virginia.....	48,938	599	12.24

Year 1909.

WEST VIRGINIA.	50,567	340	6.72
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*LIVES LOST INSIDE, NO. OF INSIDE EMPLOYEES AND TONNAGE
MINED FOR EACH LIFE LOST INSIDE—1909.*

COUNTY.	No. of Lives Lost Inside the Mine.	Lives Lost Inside of Mine, per 1,000 Employees (Inside).	Tons of Coal Pro- duced per each Life Lost Inside of Mine.	Tons of Coal Pro- duced per each Inside Employee.	Total Tons of Coal Produced.	Total Inside Em- ployees.
Brooke.....	1	1.31	224,823	586	449,647	765
Hancock.....				482	46,756	97
Marion.....	20	6.14	186,688	1,147	3,733,765	3,255
Marshall.....	1	2.95	233,848	690	233,848	339
Ohio.....				600	158,327	264
Harrison.....	13	3.96	231,205	916	3,005,689	3,282
Lewis.....				276	13,780	50
Upshur.....	2	19.41	20,295	588	60,589	103
Barbour.....	1	1.34	735,033	987	735,033	745
Monongalia.....				641	235,816	368
Preston.....	3	2.51	218,111	548	654,333	1,194
Taylor.....				843	437,633	519
Grant.....				833	177,406	213
Mineral.....	5	6.48	149,131	966	745,658	772
Randolph.....	1	2.26	463,206	1,048	463,206	442
Tucker.....	3	2.72	335,291	914	1,005,873	1,100
Braxton.....				1,022	93,024	91
Gilmer.....				527	14,740	28
Mason.....	1	4.22	106,802	451	106,802	237
Putnam.....	3	3.75	126,140	474	378,420	799
Clay.....				283	25,797	91
Fayette.....	50	4.58	153,823	696	7,597,747	10,909
Kanawha.....	16	2.68	259,860	693	4,136,213	5,967
Boone.....				172	3,451	29
Nicholas.....				431	40,556	94
Greenbrier.....				718	32,296	45
Raleigh.....	18	7.41	99,879	740	1,797,812	2,429
Mercer.....	12	5.37	175,272	941	2,103,263	2,254
McDowell.....	175	16.41	53,800	883	9,415,069	10,661
Wyoming.....						
Lincoln.....				594	49,954	84
Logan.....	11	6.94	177,430	1,204	1,909,063	1,586
Mingo.....	4	2.32	404,395	939	1,617,581	1,722
Wayne.....				607	34,619	57
For the State.....	340	6.72	4,355,032	821	41,513,766	50,562

TABLE SHOWING THE NUMBER KILLED INSIDE OF THE MINES BY FALLS PER EACH 1,000 PERSONS EMPLOYED INSIDE OF THE MINES IN THE STATES OF OHIO, ILLINOIS, PENNSYLVANIA AND WEST VIRGINIA FROM 1897 TO 1908 INCLUSIVE.

YEARS.	Ratio Killed by Falls of Coal, Slate and Roof per 1,000 Inside Employees.				
	Ohio.	Illinois.	Pennsylvania.		West Virginia.
			Bituminous Mines.	Anthracite Mines.	
1897.....	1.07	1.52	1.50	2.13	2.75
1898.....	1.47	1.36	1.92	2.04	3.60
1899.....	1.52	1.54	2.28	2.45	3.26
1900.....	1.52	1.44	1.79	1.86	2.79
1901.....	1.38	1.43	1.95	2.29	2.95
1902.....	1.59	1.42	2.02	1.18	2.90
1903.....	2.13	1.65	1.92	2.05	3.15
1904.....	2.26	1.32	1.83	2.16	2.61
1905.....	1.98	1.49	2.19	2.53	2.62
1906.....	1.91	1.49	2.15	1.86	2.42
1907.....	2.25	1.23	2.04	2.37	3.15
1908.....	1.43	1.41	1.71	2.28	3.16
Averages	1.50	1.43	1.93	2.10	2.95
1909.....					2.84

DETAIL OF LIVES LOST PER TONS OF PRODUCTION.

Number of mines where fatal accidents occurred.....	173
Number of lives lost.....	364
Number of mines where fatal accidents occurred inside.....	150
Number of lives lost inside	340
Number of men employed inside mines where fatal accidents occurred inside...	20,556
Number of tons of coal produced where fatal accidents occurred inside.....	18,392,517
Tons of coal produced. per each life lost, in mines where fatal accidents occurred inside.....	54,095
Tons of coal produced, per each life lost in State, all mines and tonnage included	114,049

TABLE SHOWING THE NATIONALITY OF PERSONS KILLED, AND CAUSES OF FATAL ACCIDENTS, AT THE MINES FOR THE YEARS 1908-1909.

NATIONALITIES.	1908.												1909.											
	CAUSES.												CAUSES.											
	Inside.						Outside.						Inside.						Outside.					
	Falls of Coal, Slate and Roof.	Mine Cars.	Explosions of Gas.	Explosions of Powder, Dust, Dynamite and Shots.	Explosions of Gas and Dust.	Animals.	Miscellaneous.	Total Number Killed Inside.	Cars.	Machinery.	Miscellaneous.	Total Number Killed Outside.	Falls of Coal, Slate and Roof.	Mine Cars.	Explosions of Gas.	Explosions of Powder, Dust, Dynamite and Shots.	Explosions of Gas and Dust.	Animals.	Miscellaneous.	Total Number Killed Inside.	Cars.	Machinery.	Miscellaneous.	Total Number Killed Outside.
American	51	10	2	79			18	160	7	1	8	16	175	48	16		49			15	130	9		143
Negro	20	11		10			5	46	3			4	50	26			60			6	100	1		105
Italian	19	4		171		1	2	197	2		1	3	209	19	3		2			2	26	2		29
Hungarian	19			2			5	26			1	1	27	11	2		4				17			17
Polish	10	1		32			1	44					44	11			1			4	16			16
Lithuanian				6				6					6	1							1	1		2
English	3							3					3	1						1	9	1		10
Slavish	8			62			1	71	1				71	8										
Welsh	1							1					1											
Austrian	4			2			1	7					7	5										
Russian	7	1					4	12				2	12	3			8			2	13	1		14
German	3						1	4	1		1	2	6	1	1						3			3
Scotch				1				1					1											
Lithuan	1							1					1											
Greek	3			5				8					8		2		3				5			5
Syrian																								
Romanian	2			1				3					3	2						1	3			3
Irish	1	1		2				4					4								3			3
Bohemian																								
Spanish																								
Unknown	3			2				5					5				3	1			4			4
Totals	155	28	2	375		1	38	599	12	2	12	26	625	143	31	4	128		3	31	340	10	14	364

NATIONALITIES OF PERSONS KILLED AND INJURED—1909.

NATIONALITIES.	Fatal.	Non-Fatal	Totals.
American.....	143	422	565
Negro.....	105	239	344
Italian.....	29	131	160
Hungarian.....	17	65	82
Polish.....	16	36	52
Lithuanian.....	1	12	13
English.....	2	9	11
Slavish.....	10	36	46
Welsh.....		3	3
Austrian.....	6	16	22
Russian.....	14	21	35
German.....	2	7	9
Scotch.....	3	6	9
Litvitch.....		4	4
Greek.....	5	7	12
Syrian.....	1	5	6
Roumanian.....	3	8	11
Danish.....		1	1
Spanish.....	1		1
Irish.....	1	2	3
Bohemian.....	1		1
Unknown.....	4	2	6
Totals.....	364	1,032	1,396

AGES OF PERSONS KILLED AND INJURED—1909.

AGES.	Fatal.	Non-Fatal	Totals.
14 years or younger.....		8	8
15 years.....	12	15	27
16 years.....	5	25	30
17 years.....	10	14	24
18 years.....	18	31	49
19 years.....	15	33	48
20 years.....	12	48	60
20 years to 25 years including 25.....	63	272	335
25 years to 30 years including 30.....	60	205	265
30 years to 35 years including 35.....	55	132	187
35 years to 40 years including 40.....	55	99	154
40 years to 45 years including 45.....	24	64	88
45 years to 50 years including 50.....	9	27	36
50 years to 55 years including 55.....	11	13	24
55 years to 60 years including 60.....	2	14	16
60 years to 65 years including 65.....	2	2	4
65 years to 70 years including 70.....	2	1	3
Unknown.....	9	29	38
Totals.....	364	1,032	1,396

TERMS OF EXPERIENCE OF PERSONS KILLED AND INJURED AT THE WEST VIRGINIA COAL MINES, 1901
TO 1909, INCLUSIVE.

LENGTH OF EXPERIENCE.	1901.			1902.			1903.			1904.			1905.		
	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.
3 months or less.....	18	30	48	19	25	44	26	44	70	15	28	43	26	34	60
Over 3 months and including 6 months.....	6	13	19	9	8	17	5	21	26	8	15	23	8	18	26
Over 6 months and including 12 months.....	13	20	33	13	30	43	21	31	52	15	25	40	11	26	37
2 years.....	8	16	24	14	26	40	15	15	30	14	33	47	28	31	59
3 years.....	4	6	10	6	12	18	4	14	18	8	14	22	25	19	44
4 years.....	4	7	11	8	10	18	8	8	16	6	9	15	12	10	22
5 years.....	2	9	11	6	10	16	12	15	27	9	13	22	12	14	26
6 years.....	3	10	13	2	6	8	3	3	6	3	6	9	9	4	13
7 years.....	2	2	4	1	1	2	2	2	4	3	3	6	4	2	6
8 years.....	4	5	9	3	4	7	6	5	10	3	5	8	2	7	9
9 years.....	.....	3	3	1	4	5	2	1	3	1	2	3	.....	.....	3
10 years.....	6	1	7	7	20	27	5	9	14	2	4	6	14	9	23
Over 10 years and including 15 years.....	7	8	15	5	3	8	10	5	15	5	6	11	10	8	18
Over 15 years and including 20 years.....	3	8	11	2	5	7	5	4	9	3	12	15	6	8	14
Over 20 years and including 25 years.....	.....	1	1	2	.....	2	.....	2	2	3	3	6	4	7	11
Over 25 years and including 30 years.....	1	2	3	1	1	2	.....	2	2	2	.....	2	2	2	4
Over 30 years and including 35 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Over 35 years and including 40 years.....	.....	.....	.....	1	1	2	.....	.....	2	2	.....	.....	2	2	4
Over 40 years and including 45 years.....	1	.....	1	1	5	5	.....	.....	1	1	.....	1	2	1	3
Over 45 years and including 50 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Several years.....	1	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Many years.....	6	5	11	.....	5	7	.....	.....	.....	2	.....	.....	.....	.....	.....
Always.....	.....	2	2	2	6	8	10	11	21	8	6	14	1	11	11
Unknown.....	3	3	6	.....	2	2	1	3	4	.....	.....	6	.....	2	3
Totals.....	39	28	67	16	48	64	23	22	45	27	25	52	16	31	47
Totals.....	130	180	310	120	239	359	159	223	382	140	211	351	194	250	444

TERMS OF EXPERIENCE OF PERSONS KILLED AND INJURED AT THE WEST VIRGINIA COAL MINES, 1901 TO 1909, INCLUSIVE—Continued.

LENGTH OF EXPERIENCE.	1906.			1907.			1908.			1909.			Sum Totals.
	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	Fatal.	Non-Fatal.	Totals.	
3 months or less.....	24	27	51	20	48	68	33	91	124	22	63	85	563
Over 3 months and including 6 months.....	9	20	29	16	22	38	54	45	99	14	43	57	334
Over 6 months and including 12 months.....	20	35	55	23	63	86	108	106	214	35	108	143	704
2 years.....	36	24	59	20	55	75	68	70	138	56	161	217	689
3 years.....	26	32	58	17	39	56	47	54	101	36	88	124	451
4 years.....	16	19	35	14	34	48	37	36	73	15	44	59	297
5 years.....	14	17	31	14	20	34	66	46	112	26	60	86	365
6 years.....	11	6	17	12	19	31	40	27	67	14	34	48	217
7 years.....	3	4	7	3	9	12	9	12	21	12	23	35	105
8 years.....	11	8	19	1	8	9	38	27	65	9	23	32	166
9 years.....	1	2	3	1	1	2	3	4	7	5	13	18	46
10 years.....	10	13	23	14	11	25	32	35	67	17	49	66	258
Over 10 years and including 15 years.....	11	8	19	7	17	24	19	40	59	27	54	81	252
Over 15 years and including 20 years.....	7	9	16	10	9	19	10	19	29	13	38	51	171
Over 20 years and including 25 years.....	2	4	6	4	6	10	1	8	9	6	15	21	68
Over 25 years and including 30 years.....	2	2	4	2	2	4	2	7	7	4	5	9	36
Over 30 years and including 35 years.....	1	1	2	2	2	4	.....	4	4	.....	.....	.....	12
Over 35 years and including 40 years.....	2	1	3	3	1	4	1	1	2	2	3	5	22
Over 40 years and including 45 years.....	1	1	2	1	1	2	.....	.....	.....	.....	.....	.....	3
Over 45 years and including 50 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
Several years.....	12	10	22	.....	15	15	11	33	44	.....	.....	.....	145
Many years.....	3	2	5	1	3	4	4	11	15	.....	1	1	42
Always.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
Unknown.....	50	52	102	174	62	236	44	166	210	51	205	256	1,079
Totals.....	268	299	567	356	448	804	625	842	1,467	364	1,032	1,396	6,080

TABLE EXHIBITING THE CAUSES OF FATAL AND NON-FATAL ACCIDENTS AND THE NUMBER AND PERCENTAGE BY EACH CAUSE—1909.

CAUSES.	Fatal.	Non-Fatal.	Totals.	Per-centage.
Explosion of Dust	116	3	119	8.52
Falls of Slate	106	300	466	33.38
Mine Cars (Inside)	31	241	272	19.47
Mine Cars (Outside)	10	39	49	13.50
Falls of Roof	28	140	168	12.00
Electric Motor	15	36	51	3.65
Mining Machinery		15	15	1.08
Explosion of Gas	3	13	16	1.15
Electricity	12	5	17	1.22
Explosion of Powder	2	9	11	.79
Premature Explosions of Powder	8	29	37	2.65
Falls of Rock	7	2	9	.65
Animals	4	16	20	1.43
Falls of Coal	3	2	5	.36
Larry	2	2	4	.29
Flying Coal	2	18	20	1.43
Fell Down Shaft	2		2	.15
Blown Through Shot	2		3	.22
Mine Cage	1	3	4	.29
Mine Pump	1	1	2	.15
Rail Road Cars		8	8	.57
Tipple	1	7	8	.57
Blown Out Shot		6	6	.43
Monitor		6	6	.43
Locomotives		5	5	.36
Mine Props		5	5	.36
Scalded by Steam		3	3	.22
Explosion of Dynamite Caps		3	3	.22
Flying Steel		2	2	.15
Coke Machines	1	1	2	.15
Engine Machinery		1	1	.07
Coke Oven		1	1	.07
Fall of Timber		1	1	.07
Miscellaneous (Inside)	4	28	32	2.29
Miscellaneous (Outside)	3	20	23	1.66
Totals	364	1,032	1,396	100.00

TABLE SHOWING NUMBER OF FATAL AND NON-FATAL ACCIDENTS, INSIDE AND OUTSIDE, AND NUMBER OF PERSONS KILLED AND INJURED—1909.

Fatal Accidents.

	No. of Accidents.	No. of Persons Killed.
Inside	209	340
Outside	21	24
Totals	230	364

Non-Fatal Accidents.

	No. of Accidents.	No. of Persons Injured.
Inside	494	936
Outside	84	96
Totals	578	1,032

**ACCIDENTS TABULATED ACCORDING TO THE DAYS OF THE WEEK
ON WHICH THEY OCCURRED—1909.**

Fatal Accidents.

	Sunday.	Monday.	Tuesday.	Wed'sday	Thursday	Friday.	Saturday.	Totals.
Inside	2	35	155	45	37	32	34	340
Outside.....		5	6	2	2	4	5	24
Totals ..	2	40	161	47	39	36	39	364

Non-Fatal Accidents.

	Sunday.	Monday.	Tuesday.	Wed'sday	Thursday	Friday.	Saturday.	Totals.
Inside	11	174	150	164	153	134	128	914
Outside.....	2	22	20	21	19	16	18	118
Totals ..	13	196	170	185	172	150	146	1,032

Summary of Fatal and Non-Fatal Accidents.

	Sunday.	Monday.	Tuesday.	Wed'sday	Thursday	Friday.	Saturday.	Totals.
Inside	13	209	305	209	190	166	162	1,254
Outside.....	2	27	26	23	21	20	23	142
Totals ..	15	236	331	232	211	186	185	1,396

**LIST OF ACCIDENTS IN WHICH MORE THAN ONE PERSON WAS
KILLED—1909.**

COUNTY.	NAME OF MINE.	DATE OF ACCIDENT.	NO. OF PERSONS KILLED.	CAUSE.
Marion	<i>a</i> Pennois	August 8, 1908	2	Fall of Slate.
Marion	Chatham No. 1.....	September 10, 1908	2	Fall of Slate.
Marion	Air Shaft No. 1.....	September 15, 1908	3	Explosion of Gas.
Fayette	Echo	March 31, 1909	6	Premature Explosion.
Fayette	Mt. Carbon.....	April 6, 1909	2	Runaway on Incline (Outside).
McDowell	<i>b</i> Lick Branch.....	December 29, 1908	49	Explosion of Dust.
McDowell	<i>c</i> Lick Branch.....	January 12, 1909	67	Explosion of Dust.
McDowell	Shawnee.....	March 25, 1909	2	Fall of Coal.
Mingo	<i>d</i> Rutherford.....	August 8, 1908	3	Runaway on Incline (Outside).
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a. In this accident one man was non-fatally injured by fall of slate.

b. In this accident two men were non-fatally injured by explosion of dust.

c. In this accident one man was non-fatally injured by explosion of dust.

d. In this accident one man was non-fatally injured (outside) by runaway on incline.

**FATAL AND NON-FATAL ACCIDENTS TABULATED ACCORDING TO
DISTRICTS IN WHICH THEY OCCURRED—1909.**

	Fatal.	Non-Fatal.
1st District	23	60
2nd District	15	71
3rd District	5	63
4th District	9	57
5th District	10	25
6th District	14	43
7th District	8	37
8th District	28	126
9th District	37	145
10th District	144	135
11th District	49	216
12th District	22	54
Totals	364	1,032

"RELATION OF THE USE OF POWDER TO MINE ACCIDENTS."

STATEMENT OF POWDER ACCIDENTS.

WEST VIRGINIA, 1897-1909.

YEARS.	Tons.	Total Killed and Injured all Accidents.	Total Killed and Injured Powder Acci- dents.	Percent Killed and Injured Powder Acci- dent of Total Killed and In- jured.	Tons per Powder Accident.
1897-1900	62,827,138	1,039	34	3.27	1,847,857
1901-1904	93,373,487	1,402	144	10.27	648,427
1905-1908	148,088,875	3,282	773	23.55	19,158
1909	41,513,766	1,396	46	3.29	29,737

"ILLINOIS."

1888-1892	69,614,489	1,678	119	7.09	584,995
1893-1897	94,658,388	3,081	233	7.56	406,259
1898-1902	123,844,292	2,925	219	7.48	565,499
1903-1907	195,332,873	3,334	384	11.48	508,679
1908	42,845,628	1,002	65	6.48	42,760

"OHIO."

1888-1892	61,257,285	1,246	85	6.82	720,674
1893-1897	65,783,625	1,435	108	7.52	609,108
1898-1902	93,644,275	2,201	105	4.77	891,850
1903-1907	134,571,182	3,317	166	5.00	810,669
1908	26,287,800	708	27	3.81	973,622

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Killed.	Date of		National- ality.	Length of Experience	Age.	Occupation.	Married or Single.	Widow.	Children.	Total No. Dependents.	Insurance Amount.	How Killed.	In-
			Injury.	Death.											
Brooke County.															
1	Beech Bottom	Peter Konovitch	2-23-09	2-23-09	Russian	Unk'n	21	Miner	M	yes	1	5		Electrocuted	No
2	Lewis No. 1	Andy Saladi	6-21-09	6-21-09	Slavish	6 yrs	40	Miner	M		4	5		(outside)	No
Marion County.															
3	Monongah No. 6	Meliam Rubish	7-30-08	7-30-08	Polish	3 mos	24	Miner	M					Fall of slate	No
4	Pennols	John Harlo	8-8-08	8-8-08	Slavish	1 yr	45	Miner	M	yes	3			Fall of slate	No
5	Pennols	Paul Karufel	8-8-08	8-8-08	Slavish	3 yrs	50	Miner	M	yes	4	5		Fall of slate	No
6	Highland	Augustine Desista	8-11-08	8-11-08	Italian	1 yr	19	Miner	M	yes				Fall of slate	No
7	Chifton	Eliza Cirlie	8-17-08	8-17-08	Austrian	8 mos	18	Miner	M					Fall of slate	No
8	Chatham No. 1	Fedor Rason	9-10-08	9-10-08	Italian	1 yr	37	Miner	M				175 00	Fall of slate	Yes
9	Chatham No. 1	Banniman Rason	9-10-08	9-10-08	Italian	1 yr	35	Miner	M				175 00	Fall of slate	No
10	Shaft	Toney Matzol	9-21-08	9-21-08	Italian	3 yrs	18	Miner	M					Fall of slate	No
11	New England	Visto Pinchto	10-22-08	10-22-08	Italian	6 yrs	34	Statenman	M	yes		1		Fall of slate	No
12	Chifton	John Marusky	12-3-08	12-3-08	Slavish	2 yrs	28	Miner	M	yes	1	2		Fall of slate	No
13	Kingmont	Francesco Parisi	3-30-09	3-30-09	Italian	3 yrs	31	Miner	M	yes		1		Fall of slate	No
14	Chatham No. 1	Sam Meallage	4-11-09	4-12-09	Austrian	4 yrs	24	Statenman	M				175 00	Fall of slate	No
15	Air Shaft No. 1	Charles McDonald	4-15-09	4-15-09	Unknown	Unk'n	Supl							Explosion of gas	No
16	Air Shaft No. 1	Robert Maynard	4-15-09	4-15-09	Unknown	Unk'n	Foreman							Explosion of gas	No
17	Air Shaft No. 1	Lennie Cook	4-15-09	4-15-09	Unknown	Unk'n								Explosion of gas	No
18	Chatham No. 1	J. C. Holcomb	4-29-09	4-29-09	American	4 yrs	58	Miner	M	yes	8	9		Fall of slate	Yes
19	Chatham No. 1	Tom Kottich	5-27-09	5-27-09	Austrian	3 yrs	55	Miner	M		3	3		Fall of slate	Yes
20	Federal	Andrew Hanlon	6-10-09	6-12-09	Irish	Unk'n	29	Driver	M					Electric motor	No
21	Parker Run	David S. Stewart	6-10-09	6-12-09	American	6 mos	27	Miner	M	yes	2	3		Fall of coal	No
22	Highland	Ross Panetta	6-24-09	6-24-09	Italian	Unk'n	26	Miner	M					Fall of slate	No
Marshall County.															
23	Hutchman	Robert Williams	9-30-08	9-30-08	American	8 mos.	19	Loader	M					Fall of stone	Yes
Harrison County.															
24	Fulmer No. 1	Steve Miller	7-20-08	7-31-08	Austrian	Unk'n	19	Miner	M					Fall of rock	No
25	Viropa	Gibor Isbarig	8-8-08	8-8-08	Hungari'n	1 yr	15	Miner	M					Fall of slate	No
26	Pitcairn	Wayne Greynolds	8-13-08	8-13-08	American	1 yr	15	Driver	M					Mine car	No
27	Harold	G. B. Spangler	8-26-08	8-26-08	American	1 yr	38	Miner	M	yes	21	3	100 00	Fall of slate	No
28	Cork	George Kurtz	10-8-08	10-8-08	American	7 mos	38	Miner	M					Fall of Coal	No
29	Waldo	Ira E. Hurst	11-27-08	11-27-08	American	8 yrs	27	Driver	M	yes	21	3	50 00	Kicked by horse	No
30	Interstate	Wade Crist	12-2-08	12-2-08	American	3 yrs	22	Driver	M	yes				Fall of slate	No
31	Gypsy	Philip Panica	3-6-09	3-6-09	Italian	3 yrs	27	Miner	M	yes	1	21		Fall of Coal	No

32 Gyssy	3-10-00	5-10-00	Italian	4 yrs	35	Statenman	M	Yes	4	5	Fall of slate	No
33 Perry	5-18-00	5-18-00	Hungarian	Unk'n	45	Miner	M	Yes	2	3	Fall of slate	No
34 Fall Run	5-19-00	5-19-00	Italian	5 yrs	34	Miner	M	Yes	2	3	Fall of slate	No
35 Meadowbrook	5-25-00	5-25-00	Syrian	5 yrs	20	Miner	M	Yes	2	3	Fall of slate	No
36 Verona	6-28-00	7-28-00	Austrian	2 yrs	28	Loader	M	Yes	2	3	Fall of coal	No
<i>Upshur County.</i>												
37 Red Rock No. 1	10-3-08	10-3-08	Italian	2 yrs	47	Water Bailor	M	Yes	4	5	Mine car	Yes
38 Red Rock No. 1	1-21-00	1-21-00	Negro	7 yrs	20	Miner	M	Yes	2	3	Fall of slate	No
<i>Barbour County.</i>												
39 Berryburg	2-18-00	3-5-00	Polish	15 yrs	35	Shoaler	M	Yes	2	3	Mine pump	No
<i>Preston County.</i>												
40 Masontown No. 6	10-11-08	10-14-08	Italian	4 yrs	28	Miner	M	Yes	4	5	Mine car	No
41 Austen No. 1	10-27-08	10-27-08	American	7 yrs	20	Miner	M	Yes	2	3	Fall of slate	No
42 Masontown No. 6	1-3-00	1-3-00	Italian	5 yrs	26	Motorman	M	Yes	1	2	Electric motor	No
43 No. 2, or Bredz	3-18-00	3-18-00	American	Unk'n	23	Laborer	M	Yes	1	2	Fell through coal bin (outside)	No
<i>Mineral County.</i>												
44 Montg'mry R'n No. 19	8-27-08	8-27-08	American	6 yrs	29	Miner	M	Yes	3	4	Blown through shot	No
45 Ott No. 20	9-1-08	9-1-08	American	6 yrs	31	Miner	M	Yes	4	4	Fall of rock	No
46 No. 6	9-11-08	9-11-08	American	24 yrs	15	Trapper	M	Yes	8	9	Fall of roof	No
47 Tyson No. 10	9-18-08	9-18-08	American	3 mos	15	Trapper	M	Yes	3	4	Mine car	No
48 Montg'mry R'n No. 19	1-26-00	1-26-00	American	3 yrs	17	Miner	M	Yes	3	4	Mine car	No
<i>Randolph County.</i>												
49 Weaver No. 1	1-10-00	1-10-00	American	5 yrs	19	Rope Rider	M	Yes	2	3	Mine car	No
<i>Tucker County.</i>												
50 Thomas No. 34	10-1-08	10-1-08	Lith'nian	7 yrs	34	Miner	M	Yes	1	2	Fall of roof	No
51 Thomas No. 34	10-16-08	10-16-08	Polish	4 yrs	37	Miner	M	Yes	2	3	Fell off shaft	Yes
52 Douglas No. 5	2-10-00	2-10-00	Italian	4 yrs	28	Miner	M	Yes	2	3	Fall of coal	Yes
<i>Mason County.</i>												
53 Linden	11-5-08	11-5-08	American	17 yrs	52	Miner	M	Yes	2	3	Flying coal	No
<i>Putnam County.</i>												
54 Black Beauty No. 2	7-18-08	7-27-00	American	20 yrs	55	Miner	M	Yes	2	3	Fall of coal	No
55 Oak Forest	1-14-00	1-16-00	American	8 yrs	30	Miner	M	Yes	2	3	Fall of coal	No
56 Manilla	4-15-00	4-15-00	Negro	10 yrs	32	Miner	M	Yes	2	3	Premature explosion	No
<i>Fayette County.</i>												
57 Seabro	7-1-08	7-1-08	Polish	5 yrs	35	Driver	M	Yes	2	3	Electrocuted	No
58 No. 2 South	7-7-08	7-8-08	Negro	4 yrs	18	Laborer	M	Yes	1	2	Electric motor	No
59 Carlisle	7-17-08	7-17-08	Polish	2 yrs	45	Miner	M	Yes	2	3	Fall of coal	Yes
60 Brooklyn	7-18-08	7-18-08	Russian	10 mos	22	Laborer	M	Yes	2	3	Fall of slate	No
61 Star	7-27-08	7-27-08	American	3 yrs	15	Brakeman	M	Yes	2	3	Mine car	No
62 Kolhoor	8-25-08	8-25-08	Russian	5 yrs	35	Miner	M	Yes	2	3	Electric motor	No
63 No. 2 North	8-20-08	8-20-08	Italian	2 mos	55	Miner	M	Yes	2	3	Electric motor	No

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1909.

No.	NAME OF MINE.	Name of Person Killed.	Date. of		Nation-ality.	Length of Experience	Age.	Occupation.	Married or Single.	Widow.	Children.	Total No. Dependents	Insurance Amount.	How Killed.	Inquest.
			Injury.	Death.											
Fayette County—															
64	Cliff Top No. 1.	Con't.	9-4-08	9-4-08	American.	1 yr.	16	Miner						Mine car	No
65	Stuart	Sam Moody	9-5-08	9-5-08	Negro	8 yrs.	24	Stable Boss						Killed by mule	Yes
66	Rush Run	Garfield Peake	9-5-08	9-5-08	Austrian	20 yrs.	36	Statenman						Fall of slate	Yes
67	Stone Cliff	Julius Volgoe	9-5-08	9-5-08	Negro	18 mos.	23	Miner	M	yes		1	300 00	Fall of slate	No
68	Stuart	Henry Carter	9-12-08	9-12-08	Negro	3 yrs.	22	Laborer						Fell down shaft	Yes
69	Wingrove	Joe Stony	9-15-08	9-15-08	Polish	8 mos	16	Trip Rider						Electrocuted	No
70	Harvey	Robert Smith	9-22-08	9-22-08	American.	Unk'n	17	Driver						Struck by windlass.	No
71	Ridgeway	Edgar Withrow	9-23-08	9-23-08	American.	15 yrs.	45	Mach. Runner	M	yes		2	50 00	Mine car	No
72	No. 2 South.	Cornelius Bird	9-25-08	9-25-08	Negro	3 yrs.	36	Miner	M	yes		1	50 00	Struck by mach. bar	No
73	Whipple	John Jukis	9-26-08	10-2-08	Polish	4 yrs.	27	Miner						Fall of coal	No
74	Brooklyn	James Brown	9-28-08	10-9-08	American	4 yrs.	30	Loader						Fall of slate	Yes
75	Dunlop No. 2	Toney Me Nitsch	10-9-08	10-9-08	Russian.	10 yrs.	25	Mach. Runner						Electrocuted	No
76	Sunny Side	Lendy Fox	10-12-08	10-12-08	American	2 yrs.	17	Brakeman						Electrocuted	No
77	Minden	Willie Krouse	10-16-08	10-16-08	American	Unk'n	17	Trip Rider						Electric motor	No
78	Layland	Delbert Walker	10-17-08	10-20-08	American	Unk'n	28	Miner						Elec. motor (outs e)	No
79	Beech Creek	Vete Angelo	10-19-08	12-1-08	Italian	Unk'n	20	Miner						Fall of slate	No
80	Dungen	Elijah Belvas	10-23-08	10-24-08	American	Unk'n	9	Miner						Fall of slate	No
81	Sugar Creek No. 2	Robert Jennison	11-7-08	11-7-08	Negro	9 yrs.	45	Miner	M	yes		4	5	Fall of slate	No
82	Meadow Fork	Wm. T. Brizendine	11-30-08	11-30-08	American	Unk'n	32	Miner	M	yes				Premature shot	No
83	Minden No. 5.	Calvin Coffman	12-4-08	12-4-08	American	5 yrs.	18	Brakeman						Electric motor	No
84	Sun	Henry Smith	12-28-08	12-28-08	Negro	Unk'n	19	Brakeman						Coke oven larry (outside)	Yes
85	Keeney	Ed. Kassuth	12-29-08	12-29-08	American	2 yrs.	16	Driver					212 00	Fell off car	No
86	Keeney	Alexander Holliday	1-30-09	1-30-09	American	15 yrs.	30	Mine Foreman	M	yes	1			Fall of slate	No
87	Blume	Manuel Holloway	2-1-09	2-1-09	Negro	20 yrs.	45	Miner					50 00	Fall of slate	No
88	Carlisle	Raymond Mitta	2-10-09	2-18-09	Polish	Unk'n	40	Miner					50 00	Explos'n of powder	Yes
89	Collins No. 2	James Gumbush	3-3-09	3-3-09	Hungari'n	5 yrs.	35	Miner	M	yes	1		50 00	Fall of coal	Yes
90	Boone	Fred E. Goode	3-6-09	3-6-09	American	6 yrs.	20	Loader						Electric motor	No
91	Minden No. 5.	Charles Wellman	3-17-09	3-17-09	American	3 yrs.	15	Trapper	M	yes				Electric motor	Yes
92	Diamond	John Coole	3-18-09	3-18-09	Greek	6 yrs.	70	Miner						Mine car	No
93	Sun	Ambrose Proctor	3-24-09	3-24-09	American	1 yr.	19	Laborer	M					Fall of slate	Yes
94	Blume	Robert Hefner	3-29-09	3-29-09	Negro	3 yrs.	55	Miner	M	yes	1	2		Mine car	No
95	Echo	Sam Melhorn	3-31-09	3-31-09	American	2 yrs.	27	Miner	M	yes	2	3		Premature explos'n	No
96	Echo	Andy Melhorn	3-31-09	3-31-09	American	2 yrs.	21	Miner	M	yes				Premature explos'n	No
97	Echo	William Smith	3-31-09	3-31-09	American	2 yrs.	50	Trackman	M	yes			25 00	Premature explos'n	No
98	Echo	John Bloomfield	3-31-09	3-31-09	American.	2 yrs.	28	Miner	M	yes	2	3	25 00	Premature explos'n	No
99	Echo	Charles Jones	3-31-09	3-31-09	American.	15 yrs.	33	Miner					25 00	Premature explos'n	No

100) Echo.....	A. D. Sudenstriecker	3-31-09	4-4-09	American	2 yrs	35) Boss Driver...	M	4	48	25	00	Premature explos'n runaway on incline (outside)	No	
101) Edwards.....	Calvin Eades	4-6-09	4-6-09	American	2 yrs	31) Clk Weighman	M	7	7			Runaway on incline (outside)	No	
102) Edwards.....	Thomas Toney	4-6-09	4-6-09	American	2 yrs	43) Foreman	M	yes	5	6		Runaway on incline (outside)	No	
103) Ansted.....	Henry Archer	4-13-09	4-13-09	Negro	2 yrs	25) Miner	M	yes	1	100	00	Fall of slate	No	
104) Laura.....	H. F. Daniels	4-20-09	4-20-09	American	14 yrs	38) Miner	M	yes	1	50	00	Fall of slate	Yes	
105) Ridgeview.....	Walter Copeland	4-28-09	5-5-09	American	8 yrs	28) Miner	M	yes	1			Fall of slate	No	
106) Dunglew No. 2	Ludwig Josa	4-30-09	4-30-09	Polish	1 yr	22) Miner	M					Fall of slate	No	
107) Jones.....	Theodor Symk	5-1-09	5-1-09	Russian	4 mos	29) Miner	M	yes	1	90	00	Fall of rock	No	
108) Minden No. 2	Charles Adams	5-31-09	5-31-09	American	10 yrs	32) Driver	M					Fall of slate	No	
109) Laurel.....	Joseph Lee	6-3-09	6-3-09	Negro	18 yrs	40) Miner	M			50	00	Fall of slate	No	
110) Minden No. 3	John J. Spiers	6-21-09	6-21-09	American	5 mos	39) Brakeman	M					Electric motor	Yes	
111) Sun.....	William Walker	6-30-09	6-30-09	Negro	4 mos	33) Laborer	M	yes	1			Electrocuted	No	
Kanawha County.														
112) Hughston No. 2	Pete Saunders	8-4-08	8-5-08	Negro	2 yrs	30) Miner	M	yes	1			Fall of coal	No	
113) West.....	Chap Ashbury	8-6-08	8-6-08	American	25 yrs	48) Miner	M	yes	7	8		Fall of slate	No	
114) Kayford.....	Lianus Williams	8-12-08	8-12-08	American	Unk'n	15) Laborer	M					Fall of coal	No	
115) Republic No. 1	Justin Dumanisky	8-19-08	8-19-08	Hungari'n	5 yrs	45) Miner	M	yes	5	6		Fall of coal	No	
116) Palmt Creek	Clarence Tompson	8-28-08	8-28-08	American	2 yrs	17) Driver	M				50	00	Fall of slate	No
117) Red Warrior	B. C. Cowan	9-11-08	9-11-08	American	Unk'n	21) Mach. Helper	M					Fall of slate	No	
118) United Splint	Wineas Cerkasas	9-28-08	9-28-08	Polish	Unk'n	36) Loader	M					Fell'n in bin (o'ts'e)	No	
119) La Mont.....	B. F. O'Dell	10-8-08	10-8-08	American	Unk'n	68) Trimmer	M	yes	1	2		Flying coal (o'ts'e)	No	
120) Oakley.....	Calvin E. Bridwell	10-19-08	10-19-08	American	Unk'n	38) Laborer	M	yes	1	2		Fall of slate	No	
121) Scranton.....	John Henneman	11-18-08	11-18-08	German	30 yrs	35) Miner	M	yes	4	5	250	00	Fall of slate	No
122) Red Warrior	Harry Akers	11-20-08	11-20-08	American	Unk'n	20) Miner & Lab'l	M					Fall of slate	No	
123) Ruby.....	James Young	12-17-08	12-17-08	Negro	Unk'n	24) Driver	M					Fall of slate	No	
124) Oakley.....	John L. Perfater	12-23-08	12-23-08	American	30 yrs	42) Foreman	M	yes	7	81,000	00	Fall of slate (outside)	No	
125) Palmt Creek	George Cadwallander	1-4-09	1-4-09	American	4 yrs	19) Spraguel	M					Fall of coal	No	
126) Kelley's Creek No. 3	Joe Jurasits	1-9-09	1-9-09	Hungari'n	Unk'n	35) Miner	M					Blown through shot	No	
127) Chesapeake No. 3	L. M. Bailey	4-2-09	4-2-09	American	4 mos	28) Loader	M	3				Fall of slate	No	
128) Belle Clare	Ira Ballard	4-13-09	4-13-09	American	Unk'n	15) Trapper	M					Dragged by mule (outside)	No	
129) Blakeley.....	William Balser	6-11-09	6-11-09	American	40 yrs	56) Miner	M	yes	6	7	50	00	Mine car (outside)	No
130) Putney No. 3	Riley Murry	6-19-09	6-19-09	American	24 yrs	64) Miner	M	yes	1			Iron bar	No	
131) Republic No. 3	Ira Blake	6-29-09	6-29-09	American	11 mos	20) Mech. Helper	M					Electric motor	No	
132) South Carbon Splint	Frank Scott	6-30-09	6-30-09	American	4 yrs	17) Motor Helper	M					Electric motor	No	
Raleigh County.														
133) Eccles No. 11	Alex Melick	8-4-08	8-4-08	Slavish	Unk'n	35) Laborer	M					Fall of stone	No	
134) Raleigh No. 6	Davy Fungelson	8-28-08	9-6-08	Scotch	10 yrs	29) Miner	M					Fall of slate	No	
135) Piney No. 3	James G. Ford	9-9-08	9-9-08	American	8 yrs	27) Miner	M	yes	2	3	1,000	Fall of slate	Yes	
136) Cranberry	Villan Colsuski	9-11-08	9-11-08	Polish	Unk'n	40) Miner	M	yes			50	00	Fall of slate	No
137) Lanark.....	Harry M. Cole	9-21-08	10-5-08	American	18 mos	23) Driver	M			3		Kicked by mule	Yes	
138) Raleigh No. 3	Joe Kohot	10-7-08	10-7-08	Slavish	3 yrs	28) Miner	M	yes	2			Electrocuted	Yes	
139) Cranberry.....	Ben Owens	10-8-08	10-14-08	Slavish	8 yrs	30) Staleman	M					Fall of slate	No	
140) Eccles No. 11	Conn Proto	10-31-08	10-31-08	Italian	Unk'n	35) Cage Helper	M			50	00	Mine car	Yes	
141) Raleigh No. 3	William McCartney	11-11-08	11-11-08	Scotch	10 yrs	32) Miner	M					Fall of slate	Yes	
142) No. 3 Stonewall	Jeff Pollard	12-10-08	12-10-08	Negro	4 mos	30) Miner	M	yes	1	2	50	00	Fall of slate	No

FATAL INCIDENTS FOR THE YEAR ENDING JUNE 30, 1909.

No.	NAME OF MINE.	Name of Person Killed.	Date of		Nationality.	Length of Experience	Age.	Occupation.	Married or Single.	Widow.	Children.	Total No. Dependents.	Insurance Amount.	How Killed.	Inquest.
			Injury.	Death.											
Raleigh County—Con															
143	Dorothy	James Hunter	12-30-08	1-6-09	American	6 yrs.	25	Motorman	X		4			Electric motor	No
144	Oswald	Steve Partita	1-11-09	1-11-09	Slavish	5 yrs.	33	Miner	M	yes		5	\$1,000.00	Fall of slate	Yes
145	Crabberry	Curtis Gilliam	4-10-09	4-10-09	Negro	Unk'n	25	Macl. Helper	M				50.00	Fall of slate	No
146	Lanark	Domingo Largon	4-27-09	4-27-09	Spanish	2 yrs.	35	Miner	M					Fall of slate	No
147	Crabberry	George Pearson	5-13-09	5-13-09	English	16 yrs.	31	Miner	M					Fall of slate	No
148	Crabberry	Riley W. Banger	5-17-09	5-17-09	American	15 yrs.	36	Miner	M	yes	1		50.00	Fall of slate	No
149	Graham	Joe Stokel	6-18-09	6-18-09	Polish	3 yrs.	46	Miner	M	yes			50.00	Fall of slate	No
150	Prosperity	John Ross	6-20-09	6-20-09	American	15 yrs.	31	Miner	X				50.00	Fall of slate	No
Mercer County.															
151	West	Harry Buchanan	7-7-08	7-7-08	American	2 mos.	14	Deer Boy	X					Fall of slate	No
152	Phinacle South	Steven Allen	7-11-08	7-19-08	Negro	2 yrs.	50	Laborer	M	yes	2			Mine car (outside)	No
153	Buckeye South	Ed. Logan	7-27-08	7-27-08	Negro	2 yrs.	30	Driver	M	yes	1			Mine car	No
154	Spring	Joseph Warmuth	8-20-08	8-20-08	Hungari'n	2 yrs.	28	Miner	X					Fall of slate	No
155	Phinacle South	Fred Davis	9-16-08	9-16-08	American	2 mos.	18	Miner	X					Fall of slate	No
156	Pawama	Ed Day	11-6-08	11-6-08	Negro	3 mos.	24	Miner	X				50.00	Fall of slate	Yes
157	Weyanoke No. 1	John G. Lester	11-24-08	11-24-08	American	4 yrs.	24	Miner	X					Fall of rock	No
158	Crystal	Jacob Hodges	12-12-08	12-12-08	American	1 yr.	28	Miner	X					Fall of slate	No
159	Spring	Raleigh P. Adams	1-30-09	1-30-09	American	Unk'n	21	Miner	X					Fall of slate	No
160	Crane Creek No. 1	John Shemler	4-5-09	4-5-09	Slavish	7 yrs.	45	Miner	M	yes	3		600.00	Fall of slate	Yes
161	Coaldale	A. D. Reynolds	5-27-09	5-27-09	Negro	10 yrs.	38	Miner	M	yes				Fall of coal	No
162	Coaldale	Frank Marlowe	5-29-09	5-29-09	American	1 mo.	41	Laborer	X					Fall of slate	No
163	Spring	Charles L. Crawford	5-31-09	6-1-09	American	8 yrs.	28	Miner	M		1			Fall of coal	No
McDowell County.															
164	Peerless	John Bell	7-7-08	7-7-08	Negro	3 yrs.	24	Miner	M	yes	2			Fall of slate	No
165	Big Sandy	George Eagle	7-13-08	7-13-08	German	3 yrs.	15	Trapper	X					Mine car	No
166	Indian Ridge	Arthur Brown	7-17-08	7-17-08	American	Unk'n	15	Car Dropper	X					Pell off tip. (o'is' de)	Yes
167	Crozer No. 2	Roman Stick	7-18-08	7-18-08	Russian	9 mos.	28	Miner	X					Fall of slate	Yes
168	U. S. No. 1	Andy Gornick	7-30-08	8-1-08	Hungari'n	6 yrs.	42	Miner	M					Fall of coal	No
169	U. S. No. 1	James Melton	8-4-08	8-4-08	Negro	1 day	21	Miner	X					Fall of slate	No
170	J. B. B. No. 2	Geo. Patterson	8-6-08	8-6-08	Negro	2 yrs.	21	Miner	X					Elect'ed (o'is' de)	No
171	No. 3	George Hinkle	8-7-08	8-7-08	American	10 yrs.	35	Miner	M					Fall of slate	No
172	Eureka	George Tolson	8-7-08	8-7-08	Negro	1 yr.	51	Miner	M	yes	5			Fall of slate	Yes
173	Hall No. 1	George T. Crazier	8-7-08	8-7-08	American	2 mos.	18	Laborer	M		6			Fall of slate	No
174	Lynchburg	Jack Catzen	8-22-08	8-22-08	Greek	1 yr.	40	Miner	M	yes			50.00	Mine car	Yes
175	Jed	Alex. Kish	8-25-08	8-25-08	Hungari'n	5 yrs.	40	Miner	M	yes	6		100.00	Fall of slate	No

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1909.

No.	NAME OF MINE.	Name of Person Killed.	Date of		Nation- ality.	Length of Experience	Age.	Occupation.		Married or Single.	Widow.	Children.	Total No. Dependents	Insurance Amount.	How Killed.	Inquest.
			Injury.	Death.												
McDowell County—																
2223	Lick Branch	Con't.	12-20-08	12-20-08	American.	5 yrs	28	Miner.	M	yes	2	3	\$		Explosion of dust	Yes
2224	Lick Branch	Elzy Belvins	12-20-08	12-20-08	American.	2 yrs	23	Miner.	M	yes		1			Explosion of dust	Yes
2225	Lick Branch	Pleas Cannady	12-20-08	12-20-08	American.	6 mos.	15	Laborer.	M	yes					Explosion of dust	Yes
2226	Lick Branch	J. E. Johnson	12-20-08	12-20-08	American.	10 yrs	30	Miner	M	yes	1	2			Explosion of dust	Yes
2227	Lick Branch	Charles Little	12-20-08	12-20-08	American.	8 yrs	23	Laborer	M	yes					Explosion of dust	Yes
2228	Lick Branch	Willey Little	12-20-08	12-20-08	American.	2 yrs	24	Laborer	M	yes					Explosion of dust	Yes
2229	Lick Branch	John W. Patton	12-20-08	12-20-08	American.	3 yrs	25	Laborer	M	yes	1	2	50 00		Explosion of dust	Yes
2230	Lick Branch	Edward Vaughan	12-20-08	12-20-08	American.	2 yrs	25	Miner							Explosion of dust	Yes
2231	Lick Branch	John Brown	12-20-08	12-20-08	Greek	2 yrs	30	Miner						50 00	Explosion of dust	Yes
2232	Lick Branch	George Meikel	12-20-08	12-20-08	Greek	2 yrs	35	Miner						600 00	Explosion of dust	Yes
2233	Lick Branch	Peter Poles	12-20-08	12-20-08	Greek	6 mos.	23	Laborer	M	yes		1			Explosion of dust	Yes
2234	Lick Branch	Seirus Buschnke	12-20-08	12-20-08	Russian	1 yr	18	Laborer	M	yes				600 00	Explosion of dust	Yes
2235	Lick Branch	Gregory Boretsky	12-20-08	12-20-08	Russian	8 mos	22	Laborer	M	yes				600 00	Explosion of dust	Yes
2236	Lick Branch	Nicoly Buschnuk	12-20-08	12-20-08	Russian	1 yr	20	Laborer	M	yes				600 00	Explosion of dust	Yes
2237	Lick Branch	Trofia Buschnuk	12-20-08	12-20-08	Russian	3 yrs	30	Laborer	M	yes	4	5			Explosion of dust	Yes
2238	Lick Branch	Leona Naumuk	12-20-08	12-20-08	Russian	9 yrs	35	Miner	M	yes	6	7	600 00		Explosion of dust	Yes
2239	Lick Branch	George Parvalic	12-20-08	12-20-08	Russian	6 yrs	40	Laborer	M	yes					Explosion of dust	Yes
2240	Keystone	Asenius Parvalic	1-1-09	1-1-09	Negro	1 mo.	17	Driver	M	yes	1	1			Mine car	No
2241	Upland	Augustus Johnson	1-5-09	1-5-09	Negro	15 yrs	40	Miner	M	yes					Fall of slate	No
2242	Roanoke	Steve Juda	1-11-09	1-11-09	Hungari'n	2 yrs	40	Miner	M	yes					Explosion of dust	Yes
2243	Lick Branch	James Ayers	1-12-09	1-12-09	American.	3 yrs	19	Laborer	M	yes					Explosion of dust	Yes
2244	Lick Branch	Daniel Arrington	1-12-09	1-12-09	American.	3 yrs	18	Laborer	M	yes		1			Explosion of dust	Yes
2245	Lick Branch	Albert Abel	1-12-09	1-12-09	American.	3 yrs	35	Miner	M	yes					Explosion of dust	Yes
2246	Lick Branch	J. H. Bolin	1-12-09	1-12-09	American.	3 yrs	20	Laborer	M	yes	2	3			Explosion of dust	Yes
2247	Lick Branch	Floyd Buffalo	1-12-09	1-12-09	American.	15 yrs	55	Laborer	M	yes					Explosion of dust	Yes
2248	Lick Branch	Robert H. Buffalo	1-12-09	1-12-09	American.	25 yrs	55	Laborer	M	yes	1				Explosion of dust	Yes
2249	Lick Branch	Henry Boles	1-12-09	1-12-09	American.	4 yrs	19	Laborer	M	yes					Explosion of dust	Yes
2250	Lick Branch	Edward R. Collins	1-12-09	1-12-09	American.	2 yrs	22	Laborer	M	yes	2	3			Explosion of dust	Yes
2251	Lick Branch	Stephen C. Clark	1-12-09	1-12-09	American.	10 yrs	30	Laborer	M	yes					Explosion of dust	Yes
2252	Lick Branch	W. E. Eversole	1-12-09	1-12-09	American.	2 yrs	21	Laborer	M	yes					Explosion of dust	Yes
2253	Lick Branch	John Hagie	1-12-09	1-12-09	American.	2 yrs	25	Laborer	M	yes					Explosion of dust	Yes
2254	Lick Branch	Con. J. Holliday	1-12-09	1-12-09	American.	9 yrs	25	Boss Driver	M	yes		1			Explosion of dust	Yes
2255	Lick Branch	Joseph Jones	1-12-09	1-12-09	American.	18 mos.	19	Laborer	M	yes					Explosion of dust	Yes
2256	Lick Branch	Ben. Johnson	1-12-09	1-12-09	American.	3 yrs	22	Laborer	M	yes					Explosion of dust	Yes
2257	Lick Branch	H. A. Leonard	1-12-09	1-12-09	American.	20 yrs	51	Miner	M	yes	9	10			Explosion of dust	Yes
2258	Lick Branch	Thomas Meyers	1-12-09	1-12-09	American.	2 yrs	45	Laborer	M	yes					Explosion of dust	Yes
2259	Lick Branch	A. P. McDade	1-12-09	1-12-09	American.	17 yrs	38	Co. Mine	M	yes	8	9			Explosion of dust	Yes

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30, 1909.

No.	NAME OF MINE.	Name of Person Killed.	Date of		Nationality.	Length of Experience	Age.	Occupation.	Married or Single.	Widow.	Children.	Total No. Dependents.	Insurance and Amount.	How Killed.	Inquest.
			Injury.	Death.											
M. Powell County—															
310	McDowell	Con't.	1-18-09	1-18-09	Italian	2 yrs	28	Miner	M					Fall of slate	Yes
311	U. S. No. 2	Mike Marel	1-18-09	1-18-09	Negro	5 yrs	42	Wireman	M	yes	5			Electric motor	No
312	Dan Halston		1-19-09	1-19-09	Italian	10 yrs	35	Miner	M					Fall of coal	Yes
313	Eureka	Pascal Mashcar	2-4-09	5-24-09	American	12 yrs	28	Miner	M			1		Fall of slate	No
314	No. 2	James Robinson	2-8-09	2-8-09	Polish	8 days	35	Miner	M					Exp. of pow. (o' l. e)	Yes
315	U. S. No. 2	Antonia Papa	2-9-09	2-9-09	Negro	Unk'n	24	Miner	M					Coke mach. (o' l. e)	No
316	Tidewater	W. C. James	2-9-09	2-12-09	Italian	Unk'n	24	Laborer	M					Fall of slate	Yes
317	U. S. No. 3	Joseph Arobal	2-12-09	2-12-09	Negro	2 yrs	20	Miner	M				100 00	Fall of slate	No
317	Page	Shedreck Stephens	2-17-09	2-18-09	Negro	4 mos	40	Miner	M				50 00	Fall of coal	Yes
318	Gilliam	Jarvis King	2-18-09	3-4-09	Negro	13 yrs	38	Miner	M	yes		1		Fall of slate	Yes
319	Bottom Creek	Tom Smith	3-4-09	3-8-09	Negro	1 day	19	Laborer	M					Coke larry (outside)	No
320	Roanoke	John Smith	3-8-09	3-8-09	Negro	5 yrs	17	Laborer	M					Mine car	No
321	No. 2	Jess (Akers) Casey	3-18-09	3-17-09	Negro	3 yrs	27	Miner	M				50 00	Fall of slate	No
322	Delta	Robert Walker	3-17-09	3-21-09	Negro	18 mos	32	Trackman	M	yes	6			Mine car	No
323	Berwind No. 1	Joe Reed	3-20-09	3-21-09	Negro	3 yrs	53	Miner	M					Fall of coal	Yes
324	Empire	Joe Ross	3-22-09	3-25-09	Italian	2 mos	23	Miner	M				50 00	Fall of slate	No
325	Shawnee	Frank Costelliz	3-25-09	3-25-09	Romanian	3 yrs	47	Statenman	M		6		30 80	Fall of slate	Yes
326	Shawnee	Vasile Telea	3-25-09	3-25-09	Romanian	4 days	28	Statenman	M		1		30 00	Fall of slate	Yes
327	Jed	Thos. Thrie	3-27-09	3-27-09	American	3 yrs	37	Miner	M	yes	3			Fall of coal	No
328	Central Pocahontas	Robert L. Kennedy	4-5-09	4-5-09	English	1 mo	17	Laborer	M					Mine car (outside)	No
329	U. S. No. 1	Julian Hyda	4-20-09	4-20-09	Hungarian	2 yrs	42	Miner	M	yes	4			Fall of slate	Yes
330	McDowell	Edward Gilbert	4-21-09	4-21-09	American	2 yrs	18	Driver	M	yes	4			Mine car	Yes
331	Middle States No. 11	A. J. Lile	5-3-09	5-3-09	American	5 yrs	64	Pumper	M	yes				Fell'n in asrd' gauge	No
332	Jed	Jos. Garrity	5-13-09	5-14-09	Negro	6 mos	25	Car Greaser	M					Mine car	No
333	King	James Rouse	5-13-09	5-13-09	Negro	Unk'n	25	Miner	M					Fall of slate	Yes
334	Angle	J. Arthur Nelson	5-14-09	5-21-09	American	8 mos	22	Miner	M	yes		1	100 00	Fall of slate	Yes
335	Piney	Jas. Hazas	5-21-09	5-21-09	Hungarian	8 mos	26	Miner	M				50 00	Fall of coal	Yes
336	Peelless	Mike Rinkish	5-27-09	6-13-09	Polish	2 yrs	42	Statenman	M	yes	4			Fall of slate	Yes
337	Slick Rock	John T. Thompson	6-7-09	6-13-09	American	36 yrs	49	Miner	M					Fall of slate	No
338	J. B. B. No. 2	Henry H. Addison	6-8-09	6-8-09	American	5 yrs	35	Miner	M					Fall of slate	No
339	Maher	Jas. Tackett	6-9-09	6-11-09	American	20 yrs	40	Miner	M					Fall of slate	No
340	Page	Mike Chiton	6-10-09	6-10-09	Hungarian	7 yrs	52	Miner	M	yes	6		50 00	Fall of slate	Yes
341	Peelless	Robert Lambert	6-11-09	6-11-09	Negro	2 yrs	22	Driver	M					Fall of slate	No
342	Shanokin	James Woody	6-11-09	6-11-09	Negro	5 yrs	22	Brakeman	M					Mine car	Yes
343	Piney	Nathan Smith	6-21-09	6-21-09	Negro	2 yrs	30	Miner	M	yes		2		Fall of slate	Yes
Logan County.															
344	Monitor	Frank Hensley	6-10-08	6-10-08	American	1 mo	14	Trapper	M					Mine car	Yes

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injury Sustained.
1	<i>Brocke County.</i> Beech Bottom	Elmer Hough	10-22-08	American.	Unk'n		Gen'l Mgr	Mins cars (outside)	Arm broken.
2	<i>Hancock County.</i> Marquet No. 4	John Maroevich	7-17-08	Hungari'n	Unk'n	30	Mch. Helper	Mining machine	Leg broken, necessitating amput'n
3	Marquet No. 5	David Gray	8-15-08	American	Unk'n	45	Miner	Fall of slate	Sprained ankle.
4	Marquet No. 4	John Rush	1-4-09	Slavish	5 yrs	25	Driver	Mine cars	Leg crushed, body bruised.
5	Marquet No. 5	J. C. Stanley	7-17-09	American.	7 yrs	56	Miner	Fall of slate	Ribs broken.
6	<i>Maryon County.</i> Chatham No. 1	Frank Milcovich	7-8-08	Austrian	3 mos	37	Mch. Helper	Mining machine	Broken finger.
7	Harvey	Peter Kava	7-18-08	Italian	2 yrs	37	Driver	Mine cars	Bruised hip and arm.
8	Pennois	Chas. Shrinka	7-20-08	Slavish	10 mos	37	Miner	Fall of slate	Left leg fractured.
9	Monongah No. 8	Niek Palumbo	7-21-08	Italian	3 mos	18	Brakeman	Mine cars	Small finger of right hand off.
10	Monongah No. 8	Achie Bise	7-21-08	American	4 mos	20	Motorman	Mine cars	Small & 3rd finger of left h'd off.
11	Monongah No. 8	Rock Vallet	7-23-08	Italian	5 mos	45	Miner	Fall of slate	Bones of right leg broken.
12	New England	Geo. Gabriellews	7-27-08	Greek	8 mos	30	Loader	Mine cars	Arm and shoulder blade fr'ctd.
13	Pennois	Wm. Higgins	8-8-08	American	3 yrs	23	Trackman	Fall of slate	H'd out right leg cr's'd bel. knee
14	Parker Run	Wm. D. Martin	8-10-08	American	2 yrs	42	Mch. Helper	Premature explosion	Buried about face & hands.
15	Middleton	Chas. E. Loft	8-14-08	American	2 yrs	20	Loader	Mining machine	Left ankle fractured
16	New England	Laurence Hamilton	8-12-08	American	5 mos	20	Driver	Mine cars	Finger mashed.
17	Federal	Sam Bucher	9-3-08	Slavish	Unk'n	20	Driver	Mine cars	Rib fractured.
18	Federal	Miki Kosah	9-10-08	Slavish	Unk'n	20	Driver	Mine cars	Fracture of right rib.
19	Hutchinson	Earl Bryan	9-22-08	American	5 yrs	20	Driver	Mine cars	Fracture of right leg.
20	Chatham No. 1	John Whinnie, Jr	9-23-08	American	3 mos	16	Trapper	Mine cars	Broken thigh.
21	Chatham No. 1	Evan Starchovich	9-28-08	Austrian	3 yrs	21	Driver	Fall of coal	Body squeezed and bruised.
22	Chatham No. 1	Tom Kasnich	10-15-08	Austrian	Unk'n	24	Laborer	Fall of slate	Bruised hips and legs.
23	Monongah No. 8	Thos. Witcher	10-22-08	Negro	Unk'n	24	Laborer	Mine cars	Right hand bruised.
24	New England	Frank Nicolette	10-22-08	Italian	3 yrs	22	Slateman	Fall of slate	Fracture of left knee.
25	Chatham No. 1	Gurzi Karsonage	11-30-08	Austrian	2 yrs	35	Miner	Fall of coal	Broken Ankle.
26	Monongah No. 8	Monar Mona	12-8-08	Hungari'n	2 mos	27	Miner	Mine cars	Bruises on back, side and chest.
27	Monongah No. 6	Donato Cere-stia	12-12-08	Italian	Unk'n	24	Miner	Fall of slate	Pelvic bone br'kn, inj rd inter y
28	Chatham No. 1	Dominic Founni	12-31-08	Italian	2 yrs	25	Cager	Mine cars	Squeezed leg.
29	Chatham No. 1	Pavel Onnitch	12-31-08	Polish	2 mos	30	Miner	Fall of coal	Bruised body.
30	Shaver	Alex. Taylor	12-31-08	Negro	7 yrs	23	Driver	Fall of slate	Right thigh fractured.
31	Montana	Chas. Johnson	1-2-09	American	5 yrs	60	Trapper	Mine cars	Right foot crushed.
32	Monongah No. 6	Joe Swidestki	1-11-09	Polish	4 mos	60	Trapper	Mine cars	Right leg off below knee.
33	Chatham No. 1	Ignatius Radisky	1-19-09	Polish	10 yrs	30	Miner	Fall of coal	Leg fractured.

34	Shaft	James W. Carr	1-21-09	American	18 yrs	57	Trackman	Caught by haulage rope	Ankle dislocated.
35	Chatham No. 1	Geo. Shadall	1-21-09	Austrian	10 yrs	30	Miner	Fall of coal	Right leg broken.
36	New England	Mike Besner	1-23-09	Russian	2 yrs	30	Mc. Runner	Mining mach. (outside)	Leg frac'td, ankle dislocated.
37	Stadford	John Floyd	1-25-09	American	5 yrs	45	Trimmer	Fall of R. R. car (outs d)	Scalp wound, leg fractured.
38	Chatham No. 1	John Spare	1-26-09	Austrian	1 yr	30	Miner	Fall of slate	Broken leg.
39	New England	Liberator Conti	1-26-09	Italian	Unk'n	19	Loader	Mine cars	Right arm lacerated.
40	Murray	Thomas Klumbuck	1-28-09	Slavish	Unk'n	48	Miner	Fall of slate	Left leg broken.
41	Montana	Thomas Bowyer	1-28-09	Slavish	20 yrs	35	Foreman	Mine cars	Right arm broken.
42	Federal	Glen Hobbs	1-29-09	American	5 mos	23	Driver	Mine cars	Lacer'd h'nd, squ'zd hips & chest
43	Federal	Andy Bechtig	3-6-09	Slavish	Unk'n	25	Loader	Fall of slate	Fracture of left leg.
44	Federal	Andy Facher	3-6-09	Slavish	Unk'n	25	Loader	Fall of slate	Fracture of left leg.
45	Highland	Savorie De Maria	4-13-09	Italian	2 yrs	28	Miner	Flying coal	Skull compressed.
46	Chefton	Toney Serian	4-27-09	Italian	14 yrs	54	Loader	Fall of slate	Left hand crushed.
47	Monongah No. 8	Waleuty Druzink	4-28-09	Polish	Unk'n	35	Miner	Fall of coal	Both legs fractured, head cut.
48	Federal	Squire Vincent	4-29-09	American	Unk'n	41	Loader	Dumped from cage	Leg cut.
49	Federal	Clansy Deems	5-1-09	American	Unk'n	19	Motorman	Electric shock	Burned left hand.
50	New England	Dave Huffman	5-3-09	American	Unk'n	48	Miner	Flying coal	Cuts on head and above eyes.
51	Federal	Jacob Beel	5-3-09	Polish	Unk'n	58	Trackman	Caught on cage	Lacerated hand.
52	Harry B	Lewis Bloom	5-11-09	American	15 yrs	55	Miner	Fall of coal	Sprained ankle, bruised leg.
53	Chatham No. 1	Frank Zeekus	5-13-09	Russian	1 yr	21	Miner	Fall of slate	Internal injuries.
54	Federal	John Mocktick	5-14-09	Polish	Unk'n	21	Driver	Mine cars	Contusion of right leg and foot.
55	Federal	W. W. Wilson	5-15-09	Unknown	Unk'n	26	Engine machinery	Engine machinery	Right hand mashed.
56	Monongah No. 2	Joe Marks	5-25-09	Italian	5 yrs	25	Miner	Fall of coal	Comp. fracture of left leg.
57	Shaft	Clarence Sapp	5-26-09	American	7 yrs	26	Pumper	Mine pump	Left arm and shoulder torn.
58	New England	Joseph Williams	6-3-09	Assyrian	Unk'n	27	Miner	Fall of slate	Cut on head, bruised back.
59	Marshall County.	Joseph Mozzin	8-3-08	Italian	my yrs	45	Miner	Fall of coal	Bones of left leg broken.
60	Harrison County	John Chambers	7-8-08	American	11 mos	20	Driver	Fall of slate	Back mashed, spinal cord br'kn
61	Enterprise	Joe Zorsky	7-18-08	Polish	5 yrs	23	Miner	Fall of coal	Right leg cut below knee.
62	New Chieftain	Frank Moroski	8-4-08	Polish	2 yrs	26	Miner	Premature explosion	Face, neck and hands burned.
63	Reynoldsville	Frank Kugosky	8-5-08	Hungari n	4 mos	39	Miner	Fall of coal	Comp. fracture bones of left leg, cut on head
64	Dunham	Felix Gingsath	8-13-08	Italian	2 yrs	42	Miner	Fall of coal	Bruised and sprained ankle.
65	Pitcairn	Carl Ross	8-25-08	American	7 yrs	23	Motorman	Fall of slate	Dislocation of hip.
66	Dola	D. C. Sandy	8-31-08	American	2 yrs	24	Miner	Fall of coal	Leg broken just above ankle.
67	Pitcairn	Joseph Thomas	9-5-08	Assyrian	7 yrs	24	Miner	Fall of coal	Broken jaw, head bruised.
68	Marshall	Joe E. Thomas	9-7-08	American	6 yrs	27	Miner	Fall of slate	Right arm broken.
69	Pinnickinnick	Joe Hla	9-7-08	Assyrian	6 mos	20	Miner	Fall of coal	Instep of right foot mashed.
70	Enterprise	Charles Drain	9-14-08	American	5 mos	20	Miner	Fall of coal	Right leg lacerated.
71	Pinnickinnick	Mose Lipkin	9-14-08	Russian	2 mos	19	Miner	Fall of coal	Left collar bone broken.
72	Columbia	Jim Mehewlas	9-18-08	Greek	10 mos	27	Miner	Fall of slate	Right shoulder and leg bruised.
73	Pinnickinnick	Andy Cursulovith	10-2-08	Austrian	16 mos	42	Trimmer	Fell off R. R. car	Comp. frac. of left arm at wrist.
74	Enterprise	John Latta	10-4-08	Polish	1 yr	30	Loader	Fall of slate	Crushed through chest.
75	Enterprise	John Frotto	10-5-08	Italian	2 yrs	38	Loader	Fall of coal	Scalp wound
76	Girard No. 2	Arthur Stires	10-14-08	American	4 yrs	19	Rope Rider	Mine cars	Cut & bruised about head & face.
77	Fulmer No. 1	E. A. Simons	10-19-08	American	6 yrs	18	Driver	Fall of slate	Head cut, back sprained.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1919.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Marion County.</i>									
78	Girard No. 2	Con't.	10-20-08	Italian	4 yrs	21	Miner	Fall of slate.	Hand crushed.
79	Erie	D. W. Lee	10-30-08	American	Unk'n	22	Miner	Fall of slate.	Broken leg.
80	Girard No. 2	Brooks Michael	10-31-08	American	1 mo.	25	Driver	Mine cars	Broken leg.
81	Gypsy	Sam Fragomeno	11-2-08	Italian	2 yrs	23	Loader	Mine cars	Left leg fractured above ankle.
82	Cork	John McGuire	11-23-08	American	Unk'n	38	Miner	Fall of slate	Loss of four toes, foot bruised.
83	Waldo No. 1	Ellis Thomas	11-25-08	American	3 yrs	25	Miner	Mine cars	Bruised abdominal muscles.
84	Harold	Henry Dickerson	12-10-08	Negro	10 yrs	43	Miner	Flying coal.	Cuts about face and above eyes.
85	Girard	Joseph Yomo	12-10-08	Italian	8 mos.	14	Signal Boy	Fell off tippie	Broken arm and fractured skull (outside).
86	Pineckinnick	W. C. Jones	12-28-08	American	2 yrs	23	Driver	Mine cars	Right ankle and instep bruised.
87	Ellen	Mont C. Harris	12-31-08	Negro	7 yrs	38	Miner	Premature explosion	Cut & bru's'd head, n'k & hands
88	Ellen	Leaman Turner	12-31-08	Negro	8 yrs	43	Miner	Premature explosion	Head, neck and body burned.
89	Solon	Tidor Arizona	12-23-08	Italian	3 yrs	25	Driver	Mine cars	Collar bone broken.
90	O'Neil	Peter Argonla	12-23-08	Italian	4 yrs	24	Scraper	Fall of coal	Frac., collar bone, cuts on head.
91	Marshall	Steve Parkovitz	12-28-08	Austrian	4 yrs	22	Miner	Mine cars	Bruised face, hands and spine.
92	Hero	James S. Wright	1-6-09	English	9 yrs	37	Miner	Explosion dynamite caps	Laceration of right hand, necrosis of right hand, necrosis of right hand, necrosis of right hand.
93	Coaling Station	E. W. Leeson	1-12-09	American	5 yrs	39	Miner	Fall of slate	Sitting amputation (outside).
94	Willard No. 1	Offidiana Azzoreno	2-17-09	Italian	2 yrs	21	Miner	Premature explosion	Fract'd left leg, injury to side.
95	Fall Run	John Fozgal	2-18-09	Italian	2 yrs	20	Driver	Mine cars	Face burned.
96	Futner No. 1	Walter Anderson	2-20-09	Danish	Unk'n	23	Miner	Fall of slate	Right arm and leg broken, both lungs punctured.
97	Enterprise	Frank Favole	2-22-09	Hungarian	Unk'n	23	Miner	Fall of slate	Broken leg.
98	Meadowbrook	L. M. Snider	3-1-09	American	5 yrs	48	M. Car Compl'r	Mine cars	Comp. fracture of leg, bruised through breast and abdomen.
99	West Fork	G. W. Thompson	3-4-09	American	15 yrs	57	Miner	Mine cars	Crushed through hips.
100	Fairmore	Charles Morkley	3-5-09	American	6 mos.	32	Tippelman	Mine cars	Broken nose, cuts above eyes.
101	Perry	Frank Fuzzan	3-10-09	Italian	3 yrs	24	Laborer	Mining machinery	Crushed foot (outside).
102	Pitcairn	August Skarunlis	3-11-09	Lithuanian	8 yrs	22	Miner	Mine cars	Right leg broken.
103	Girard No. 2	Oral Robinson	3-17-09	American	3 mos	23	Driver	Mine cars	One finger broken.
104	Dunham	Paul Oliverio	3-18-09	Italian	6 yrs	26	Miner	Fall of slate	Mashed leg, broken, one lacerat'd
105	Enterprise	John Stacho	3-25-09	Polish	Unk'n	22	Loader	Flying coal	Right leg broken, left hand bruised, face skinned.
106	New Chiefton	Sam Swais	4-23-09	American	10 yrs	30	Trackman	Mine cars	Eye injured.
107	Miller No. 1	Joseph McCloy	4-5-09	American	15 yrs	36	Track Helper	Fall of slate	Finger of right hand off.
108	Girard No. 1	Thos. Isabelle	4-7-09	Italian	9 yrs	30	Miner	Fall of coal	Bruise of neck and right ankle. Cuts on head & face, right foot mashed, back scraped.

109	O'Neill	Asa Pierce	4-13-00	American	2 mos.	16	Trip Rider	Mine cars	Comp'd fracture of two fingers (outside).
110	Hero	Luther Lindsay	4-30-00	English	2 yrs	16	Driver	Mine cars	Left arm broken.
111	Pimicknick	Mike Obrink	5-7-00	Slavish	1 yr	21	Driver	Mine cars	Right foot bruised.
112	Hutchinson No. 2	Frank Krivich	5-7-00	Austrian	Unk'n	29	Miner	Fall of coal	Contusion of scalp, five inches in length.
113	Enterprise	Toney Olivio	5-10-00	Italian	15 mos	16	Trapper	Mine cars	Fractured shoulder blade.
114	Grasselli	Samuel Long	5-13-00	Italian	7 yrs	40	Miner	Mine cars	Arm broken between elbow and wrist.
115	Pooz	Lazo Gaverno	5-14-00	Slavish	6 mos	25	Laborer	Fall of coal	Left leg broken.
116	Erie	Joe Henry	5-18-00	Syrian	2 yrs	25	Laborer	Flying slate	Scalp wound.
117	Columbia	Steve Kanopko	5-25-00	Slavish	3 mos	18	Miner	Fall of coal	Thumb on right hand broken.
118	Viropa	Pasko Beltrn	5-25-00	Italian	Unk'n	34	Miner	Fall of slate	Two wounds on leg.
119	Columbia	Steve La Hosky	6-2-00	Slavish	4 yrs	22	Driver	Thrown from horse	Body squ'zed, right arm broken
120	O'Neill	Tom Sacco	6-5-00	Italian	6 mos	23	Miner	Mine cars	Right shoulder squeezed, cuts on forehead.
121	Meadowbrook	Joe Kovacs	6-7-00	Hungari'n	5 mos	28	Miner	Fall of slate	Bruised through hips.
122	Perry	Tony Gazella	6-8-00	German	2 yrs	19	Driver	Caught betw'n tail chain and bumper	Index finger right hand smashed.
123	Erie	Claud Martin	6-8-00	American	5 yrs	24	Driver	Mine cars	Foot squeezed.
124	Erie	Frank Ross	6-11-00	Italian	2 yrs	22	Driver	Mine cars	Squeezed through chest.
125	National	John Pogarda	6-15-00	Polish	4 yrs	24	Miner	Fall of slate	Fractured leg.
126	Pimicknick	Frank Egi	6-28-00	Hungari'n	Unk'n	34	Driver	Mine cars	Squeezed through hips & chest.
127	Dunham	E. D. Way	6-28-00	American	9 yrs	37	Miner	Fall of coal	Cut on head & back, hip bru' sd.
<i>Upshur County.</i>									
128	Red Rock	John Noon	7-21-08	American	3 yrs	19	Brakeman	Mine cars	Foot mashed, one toe broken.
129	Red Rock	Frank Chickepa	8-13-08	Italian	Unk'n		Miner	Flying coal	Face cut.
130	Red Rock	Cyrus W. Eckees	3-8-00	American	3 yrs	25	Motorman	Electric motor	Both limbs broken and mashed.
131	Red Rock	Robt. Laing, Jr	5-2-00	American	15 yrs	38	Superintendent	Mining machinery	Left leg mashed, necessitating amputation.
132	Century No. 1	Joe Grizanti	7-10-08	Italian	1 yr	44	Miner	Fall of slate	Right leg fractured.
133	Century No. 1	Eugene Daldos	7-13-08	Italian	4 mos.	19	Miner	Explosion of shot	Laceration of right hand, loss of thumb, lacerat'n of right thigh
134	Century No. 1	Antonio Giorgi	7-23-08	Italian	Unk'n		Miner	Mine cars	Fracture of clavicle.
135	Century No. 1	Joe Waltas	8-21-08	Lithuan'n	3 mos.	23	Driver	Mining machinery	Laceration of left thumb, necessitating amputation.
136	Century No. 1	Peter Staznvlch	9-16-08	Lithuan'n	5 wks	30	Miner	Fall of slate	Bruised on back and right leg.
137	Weaver No. 3	J. T. Jefferies	10-2-08	American	10 yrs.	35	Miner	Mine cars	Wrenched knee.
138	Century No. 1	Zedra Querrick	10-2-08	Italian	2 wks	30	Miner	Fall of slate	Left leg bruised and fractured, face lacerated.
139	Century No. 2	Nick Vetri	10-5-08	Italian	4 yrs	27	Miner	Mine cars	Fractured finger on right hand.
140	Century No. 1	George Deavers	10-5-08	American	9 yrs	31	Mch. runner	Mining machinery	Contusion of toe on right foot.
141	Century No. 2	Joe Delrick	10-10-08	Italian	3 yrs	34	Miner	Flying coal	Laceration of eye.
142	Century No. 1	Joe Munila	10-23-08	Italian	3 yrs	32	Miner	Mine cars	Bruises of ribs.
143	Century No. 1	George Peoples	12-2-08	Lithuan'n	8 yrs	48	Miner	Mining machinery	Laceration of right leg.
144	Century No. 1	John Bagdonovich	12-19-08	Lithuan'n	2 yrs	31	Mch. runner	Mining machinery	Thumb mashed.
145	Century No. 2	James Welsh	1-13-00	English	2 yrs	43	Miner	Fall of slate	Fracture of right leg, sur'd ank'e

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Harbour County.</i>									
146	Century No. 1	Con't.							
147	Century No. 1	C. H. Wolf	2-6-09	American	25 yrs.	43	Miner	Struck by axe	Lacerated knee.
148	Century No. 2	Angroza Gavanna	2-13-09	Italian	1 mo.	41	Miner	Fall of slate	Bruised shoulder, ankles spr'ed.
149	Century No. 1	Gornet Greso	4-21-09	Italian	11 mo.	25	Loader	Fall of slate	Fracture of right leg.
150	Century No. 1	Jano, Zolinski	5-10-09	Polish	2 yrs.	36	Miner	Fall of slate	Bruised shoulders, back & thigh, two fingers lacerated.
151	Berryburg	Tony Bow	5-19-09	Italian	1 yr.	19	Loader	Fall of coal	Both bones of right leg fractured
<i>Monongalia County.</i>									
152	Beechwood	Henry Poling	2-17-08	American	5 yrs.	21	Brakeman	Electric motor	Toe cut off of left foot.
153	E. C. & C. Co. No. 5	Clyde Malone	8-15-08	American	6 yrs.	25	Miner	Fall of rock	Foot squeezed, face & body bru'd
154	E. C. & C. Co. No. 5	Henry Robinson	10-18-08	American	2 yrs.	20	Motorman	Putting out fire (outside)	Burned on hands and limbs.
155	Richard No. 1	C. H. Hagadorn	11-7-08	American	1 yr.	20	Laborer	Mine cars	Injuries to back and legs.
156	Richard No. 1	Tony Ranolla	10-5-08	Italian	16 mos.	41	Miner	Mine cars	Broken rib.
157	Grant	Charles Lanham	1-25-09	American	10 yrs.	45	Miner	Fall of slate	Flesh wounds.
158	Deckers Creek	Jos. Bossir	3-2-09	Italian	Unk'n	22	Miner	Mine cars	Injury to leg.
159	Richard No. 1	George Nue	3-13-09	American	3 yrs.	28	Oxen charger	Struck by tarry (outside)	Broken leg.
160	Deckers Creek	Paul Dominica	3-17-09	Unk'n	3 yrs.	28	Miner	Mine cars	Comp. fracture of right leg.
161	E. C. & C. Co. No. 5	George Raber	5-14-09	Slavish	3 yrs.	34	Miner	Electric motor (outside)	Cuts on face.
162	Deckers Creek	Martin Mack	5-14-09	Hungar'n	21 yrs.	58	Miner	Electric motor (outside)	Collar bone and shoulder blade Broken.
163	Deckers Creek	Anton Evansky	5-18-09	Lithuan'n	10 yrs.	40	Miner	Mine cars	
<i>Preston County.</i>									
163	Kingwood	Dominick Burt	7-1-08	Italian	6 yrs.	19	Miner	Fall of slate	Broken arm.
164	Bretz No. 2	Joe Morleen	7-1-08	Italian	Unk'n			Hot ashes (outside)	Slightly bruised.
165	Victoria No. 2	John Hendricks	7-14-08	Polish	9 yrs.	35	Laborer	Fall of coal	Contusion above knee.
166	Victoria No. 2	Arnold Andrews	7-31-08	American	2 yrs.	24	Miner	Fall of coal	Contusion below knee.
167	Bretz No. 2	Sabatonia Slesish	9-22-08	Italian	3 yrs.	27	Miner	Mine cars	Middle ear ruptured, contusion of brain.
168	Vulkan	L. O. Talbot	9-23-08	American	3 yrs.	31	Miner	Fall of slate	Head cut, bruised hips.
169	Bretz	Lewis Kiddy	9-23-08	Roman'n	2 yrs.	27	Laborer	Mine cars	Bruised ankle.
170	Bretz No. 2	Ernegoldo Tuissa	10-27-08	Italian	2 yrs.	27	Miner	Powder explosion	Burned face and arms.
171	Bretz No. 2	Marshall Coburn	10-28-08	American	5 yrs.	23	Miner	Electric motor	Head injured.
172	Kingwood No. 4	Blair Coburn	11-17-08	American	7 yrs.	23	Laborer	Mine cars (outside)	Head and breast bruised.
173	Cascade	Nick Simonovich	12-11-08	Hungar'n	2 yrs.	29	Miner	Fall of slate	Bruised back, sprained ankle.
174	Howesville	Lee Viles	12-17-08	American	9 yrs.	23	Miner	Fall of coal	Spine injured, squeezed thru hips
175	Bretz No. 9	Chas. Sterling	12-22-08	American	1 mo.	20	Laborer	Mine cars	Foot bruised.
176	Kingwood No. 4	Alex. Simpson	1-14-09	Scottish	45 yrs.	69	Miner	Flying slate	Eye injured.

177	Irona	Lucian Albright	1-2-00	American	15 mos	39	Car oiler	Fell off tippie (outside)	Internal injuries.
178	Austin No. 1	Wm. J. Maxwell	2-15-00	American	4 yrs	22	Driver	Mine cars	Back injured.
179	Tunnelton No. 2	George Long	2-15-00	American	10 yrs	24	Cutter	Fall of coal	Arm broken.
180	Vulcan	John Aponie	3-19-00	Russian	2 yrs	26	Miner	Fall of slate	Arm broken, leg mashed.
181	Austen No. 1	John Ross	3-19-00	American	18 yrs	31	Miner	Fall of slate	Back bruised.
182	Austen No. 1	John Valente	3-30-00	Italian	2 yrs	19	Miner	Fall of slate	Forehead cut.
183	Kingwood No. 4	John Milene	4-1-00	Italian	3 yrs	30	Miner	Plying coal	Eye injured.
184	Kingwood No. 4	John Phillips	4-10-00	Italian	22 yrs	35	Miner	Fall of slate	Finger injured.
185	Tunnelton	A. J. Johnson	4-16-00	American	20 yrs	52	Miner	Mine cars	Finger injured.
186	Tunnelton	Charles Michiel	4-23-00	American	11 yrs	24	Miner	Mine cars	Toe mashed.
187	Irona	William Zubery	5-8-00	Polish	10 yrs	34	Miner	Mine cars	Ankle sprained.
188	Kingwood No. 4	Tony Lazzare	5-13-00	Italian	3 yrs	23	Miner	Fall of coal	Fractured knee.
189	Austen No. 1	Thomas Dally	5-14-00	American	24 yrs	47	Mine engineer	Fall of slate	Thigh broken, knee dislocated.
190	Bretz No. 2	John Moran	5-20-00	Italian	4 mos	25	Laborer	Caught by boiler (outside)	One toe broken, one mashed.
<i>Taylor County.</i>									
191	Rosemont	Charles Stanko	2-1-08	Slavish	Unk'n	19	Miner	Fall of coal	Contusion of hips.
192	Rosemont	Mathias Russell	1-19-00	American	25 yrs	38	Miner	Fall of coal	Bruises on back.
193	Rosemont	A. A. Jones	3-21-00	American	25 yrs	38	Fireman	Electric motor (outside)	Foot bruised, necessitating amputation of three toes.
194	Rosemont	Charles Palro	2-24-00	Slavish	8 yrs	35	Miner	Fall of slate	Right leg broken.
<i>Grant County.</i>									
195	Henry No. 22	Tony Patch	7-9-08	Italian	1 yr	32	Miner	Fall of coal	Ankles sprained, back bruised.
196	Henry No. 22	George Harvick	9-16-08	Polish	6 mos	22	Miner	Electric shock	Hands and shoulder burned.
197	Henry No. 22	Nick Watovic	10-10-08	Monte g'n	2 yrs	26	Miner	Fall of coal	Knee bruised.
198	Henry No. 22	Tony Rodosky	11-24-08	Lithuan'n	5 yrs	30	Miner	Premature explosion	Fracture of skull and brain.
199	Henry No. 22	Everett Tony	12-23-08	Italian	Unk'n	20	Brakeman	Mine cars	Left leg broken.
200	Henry No. 22	J. F. Boring	12-23-08	American	5 yrs	25	Trackman	Electric motor	Foot bruised.
201	Henry No. 22	Joe Geraski	2-13-09	Slavish	Unk'n	16	Driver	Mine cars	Left foot mashed.
202	Henry No. 22	Paul Terant	5-14-00	Italian	5 yrs	27	Driver	Mine cars	Hand mashed.
<i>Mineral County.</i>									
203	Blaine	Andrew Syalski	10-2-08	Greek	Unk'n	19	Laborer	Runover by R.R. car (o.s.)	Loss of foot.
204	Gleason No. 2	William McLanus	11-21-08	American	6 mos	19	Miner	Fall of slate	Leg broken.
<i>Randolph County.</i>									
205	Weaver No. 2	Peter Balse	10-31-08	Italian	4 yrs	28	Miner	Fall of slate	Head cut, back sprained.
206	Weaver No. 1	James Tenney	11-9-08	American	3 yrs	17	Coupler	Caught bet. rope & wh'l	Hand lacerated.
207	Weaver No. 1	Otto Simons	12-17-08	American	4 yrs	18	Driver	Mine cars	Foot mashed, two toes off.
208	Weaver No. 2	Thomas Tenney	12-17-08	American	1 wk	16	Chaser	Mine cars	Arm Broken.
209	Weaver No. 1	Chas. Brady	12-18-08	American	8 yrs	30	Miner	Fall of coal	Leg crushed.
210	Weaver No. 2	T. G. Fry	1-25-00	American	5 yrs	22	Coupler	Mine cars	Leg bruised.
211	Weaver No. 1	Chas. Finch	2-23-00	American	5 yrs	16	Leader	Mine cars	Hand mashed.
212	Coalton No. 1	Raymond Taylor	4-7-00	American	3 yrs	19	Brakeman	Mine cars	One leg broken, injured int'nly
213	Weaver No. 1	Dallas Moore	5-12-00	American	2 yrs	15	Leader	Mine cars	Leg wrenched.
<i>Tucker County.</i>									
214	Cokelon No. 26	Frank Benenich	7-11-08	Austrian	3 yrs	32	Miner	Fall of slate	Jaw broken.
215	Thomas No. 25	Adam Kesses	7-13-08	Lithuan'n	1 yr	20	Driver	Mine cars	Foot squeezed.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Occu-pation.	Nature of Accident.	Injury Sustained.
<i>Tucker County—</i>								
216	Coketon No. 36	Con't.						
217	Thomas No. 23	Matt Good	7-23-08	American	7 yrs.	Miner	Mine cars	Finger mashed.
218	Coketon No. 33	Pasqual Riche	7-31-08	Italian	8 mos.	Dumper	Mine cars (outside)	Foot injured.
219	Thomas No. 36	Const. Carnan	8-17-08	Italian	3 yrs.	Miner	Fall of slate	Right leg broken, cut on head.
220	Coketon No. 25	Mathew Maliska	9-14-08	Lithuanian	3 yrs.	Miner	Fall of slate	Ankle and shoulder bruised.
221	Thomas No. 23	E. R. Manley	9-16-08	American	Unk'n	Laborer	Motor axle (outside)	Toe mashed.
222	Thomas No. 34	Oscar Pise	9-24-08	American	15 yrs.	Trackman	Caught betw'n cross-bar and motor (outside)	Back sprained.
223	Thomas No. 34	L. C. McCauley	9-24-08	American	5 yrs.	Laborer	Roll of trolley wire	Shoulder bruised.
224	Coketon No. 30	Joseph Paterno	9-30-08	Italian	2 yrs.	Miner	Premature explosion	Face and eyes cut.
225	Coketon No. 35	Angelo Pothoia	10-5-08	Italian	Unk'n	Fireman	St'm pipe burst. (out 'de)	Hands and arms scalded.
226	Coketon No. 36	Howard Lewis	10-16-08	American	2 yrs.	Driver	Mine cars	Two toes of left foot mashed.
227	Coketon No. 26	Mike Vendelosky	10-21-08	Austrian	1 yr.	Driver	Mine cars	Index finger of right hand off.
228	Coketon No. 33	James Torelli	10-22-08	Italian	10 mos.	Miner	Fall of slate	Leg bruised.
229	Thomas No. 23	Fena Carmanchia	10-24-08	Italian	3 yrs.	Miner	Mine cars	Squeezed through chest.
230	Coketon No. 26	John Farley	11-7-08	American	3 yrs.	Brakeman	Mine cars	Right foot mashed.
231	Thomas No. 34	Frank Scarpotte	11-18-08	Gravish	9 mos.	Miner	Mine cars	Right foot mashed.
232	Thomas No. 34	Joe Muscaronis	11-27-08	Slavish	1 yr.	Driver	Kicked by mule	Brused face.
233	Thomas No. 33	Ernest Rose	12-16-08	American	2 mos.	Driver	Mine cars	Finger of right hand mashed.
234	Thomas No. 34	Herbert Edburn	12-28-08	American	2 yrs.	Driver	Mine cars	Both legs bruised.
235	Coketon No. 36	Oscar Haas	1-9-09	Litvich	2 yrs.	Miner	Fall of coal	Brused shoulder, ankle and side.
236	Coketon No. 30	George Quovatis	1-9-09	Russian	8 mos.	Miner	Fall of prop.	Left foot bruised.
237	Thomas No. 34	Howard Lewis	1-11-09	American	4 yrs.	Driver	Fall of slate	Face and head cut.
238	Thomas No. 34	Joe Slogar	1-15-09	Gravish	2 yrs.	Miner	Mine cars	Neck and shoulder bruised.
239	Thomas No. 34	Amelia Planca	1-15-09	Slavish	Unk'n	Miner	Fall of slate	Arms and legs bruised.
240	Thomas No. 34	Joseph Hoosle	1-16-09	Gravish	6 yrs.	Miner	Fall of slate	Left leg broken.
241	Coketon No. 35	Wade McGuffin	1-20-09	American	2 yrs.	Driver	Fall of slate	Face and head cut.
242	Douglas No. 5	Salvador Wotara	2-10-09	Italian	4 yrs.	Miner	Mine cars	Left thigh bruised.
243	Thomas No. 35	John Smutz	2-16-09	Lithuanian	1 yr.	Miner	Fall of coal	Right ankle bruised.
244	Thomas No. 33	John Karonis	2-17-09	Litvich	3 yrs.	Miner	Mine cars	Brused chest.
245	Thomas No. 34	Clinton Pierre	2-19-09	American	1 yr.	Chaser	Mine cars	Ankle sprained.
246	Thomas No. 34	Dan Miller	3-18-09	Lithuanian	3 yrs.	Miner	Fall of coal	Foot and ankle injured.
247	Coketon No. 35	Joseph Ocrosick	4-1-09	Austrian	3 yrs.	Miner	Fall of slate	Right leg crushed above knee.
248	Coketon No. 36	Sam Salvan	4-3-09	Italian	4 mos.	Miner	Fall of coal	Leg broken, head cut.
249	Coketon No. 36	Joe Marotta	4-3-09	Italian	6 mos.	Miner	Fall of coal	Ankle broken.
250	Coketon No. 36	Mike Latsko	4-29-09	Austrian	10 yrs.	Miner	Fall of slate	Back and foot injured.
251	Thomas	John W. Young	5-24-09	American	8 yrs.	Fireman	St'm pipe burst. (outs e)	Back, side and arm scalded.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience.	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Fayette County.</i>									
283	Laura	Con't.	8-14-08	American	Unk'n	17	Laborer	Rope mach'y (outside)	Three toes off right foot.
284	Luther Mackey	Luther Mackey	8-14-08	American	5 yrs	20	Brakeman	Electric motor	Arm broken, face cut.
285	Howard Surber	Howard Surber	8-14-08	American	10 yrs	45	Miner	Fall of slate	Back sprained, leg bruised.
286	E. L. Bibb	E. L. Bibb	8-14-08	American	1 yr	15	Brakeman	Electric motor	Side cut, nose bruised.
287	Emmet Hoffman	Emmet Hoffman	8-14-08	American	2 yrs	16	Miner	Fell off monitor (outside)	Body bruised.
288	Howard Flint	Howard Flint	8-15-08	American	1 yr	19	Miner	Fell off monitor (outside)	Body bruised.
289	Charles Coy	Charles Coy	8-15-08	American	1 mo.	25	Laborer	Lamp of coal fell under triple (outside)	Confused scalp.
290	George Yancy	George Yancy	8-15-08	Negro	Unk'n	35	Miner	Premature explosion	Left eye out, leg & hands burned.
291	John Cicola	John Cicola	8-17-08	Italian	Unk'n	24	Driver	Mine cars	Two fingers crushed.
292	Jas. Chabls	Jas. Chabls	8-18-08	American	Unk'n	24	Driver	Mine cars (outside)	Leg broken.
293	Herbert Brown	Herbert Brown	8-20-08	Negro	2 yrs	43	Miner	Fall of coal	Jaw bone fractured.
294	Joe Saunders	Joe Saunders	8-20-08	Negro	20 yrs	45	Miner	Struck by adz (outside)	Left leg cut.
295	Charles Miller	Charles Miller	8-21-08	Negro	1 yr	30	Laborer	Electric motor	Right leg broken.
296	John Belar	John Belar	8-23-08	Slavish	15 yrs	25	Miner	Mine cars	Right hand injured.
297	Russell Copeland	Russell Copeland	8-24-08	American	Unk'n	22	Miner	Fall of slate	Toe mashed.
298	Fred Roberts	Fred Roberts	8-24-08	Russian	Unk'n	26	Laborer	Flying coal	Chest and face lacerated.
299	Thomas Kearney	Thomas Kearney	8-27-08	American	5 yrs	24	Motor Runner	Fall of slate	Left hip dislocated.
300	J. H. Foster	J. H. Foster	8-27-08	American	20 yrs	37	Miner	Struck by ham'r (outs' e)	Right foot bruised.
301	J. A. Bulrick	J. A. Bulrick	8-27-08	Hungari'n	8 mos.	45	Carpenter	Mine cars	Breast bone broken.
302	Joe Hoodcarr	Joe Hoodcarr	8-29-08	Slavish	3 days	29	Laborer	Mine cars	Body bruised.
303	Sam Hamlet	Sam Hamlet	8-29-08	Negro	1 mo.	21	Laborer	Mine cars (outside)	Egg broken.
304	Peter Bunfield	Peter Bunfield	9- 2-08	Polish	Unk'n	23	Laborer	Fall of slate	Knee cap off.
305	Jacob Laird	Jacob Laird	9- 3-08	Negro	5 yrs	40	Miner	Fall of slate	Left leg broken.
306	Jerry Roder	Jerry Roder	9- 8-08	American	Unk'n	33	Miner	Fall of coal	Left foot bruised.
307	Edward Bumpas	Edward Bumpas	9-11-08	Negro	4 yrs	21	Miner	Electric shock	Wound on forehead.
308	Joe Hlemas	Joe Hlemas	9-11-08	Negro	9 mos	27	Driver	Mine cars	Toe mashed.
309	Joe Hagay	Joe Hagay	9-10-08	Hungari'n	8 yrs	33	Miner	Mine cars	Leg broken, ankle dislocated.
310	John Dunn	John Dunn	9-11-08	Irish	20 yrs	34	Mine Foreman	Caught by haulage rope.	Brused back.
311	Louis Coxie	Louis Coxie	9-14-08	Negro	Unk'n	28	Driver	Mine cars	Toes crushed.
312	Ross Bulrick	Ross Bulrick	9-14-08	American	7 yrs	26	Driver	Mine cars	Squeezed through abdomen.
313	Fred Ford	Fred Ford	9-15-08	American	2 yrs	17	Driver	Mine cars	Two fingers off.
314	Herman Lane	Herman Lane	9-16-08	American	Unk'n	16	Driver	Fall of slate	Cut over eye, hips & ankle brns'd
315	James Pollock	James Pollock	9-17-08	American	2 yrs	18	Driver	Electric motor	Foot bruised.
316	Earl Harris	Earl Harris	9-18-08	American	4 yrs	33	Brakeman	Fall of slate	Legs and back bruised.
317	George Branham	George Branham	9-18-08	American	2 yrs	33	Laborer	Fall of slate	Foot bruised.
318	Mike Kenosh	Mike Kenosh	9-19-08	Negro	Unk'n	32	Miner	Fall of slate	Foot bruised.
319	Dewey Ford	Dewey Ford	9-21-08	Negro	Unk'n	32	Driver	Kicked by mule	Mouth injured.
320	Red Ash	Red Ash	9-21-08	Negro	7 yrs	23	Driver		
321	Minden No. 4								
322	Harvey								
323	Elmo								
324	Minden No. 3								
325	Beechwood No. 1								
326	Red Ash								
327	Beechwood No. 1								
328	Beechwood No. 1								

329	Kay Moor No. 2	Elijah Layne	9-21-08	Negro	5 yrs	24	Driver	Mine cars	Leg bruised.
330	Kay Moor No. 2	Julius Marshall	9-21-08	Negro	11 yrs	40	Miner	Fall of slate	Fractured thigh.
331	Brooklyn	Garrett Anderson	9-23-08	American	3 mos	27	Trippleman	Caught by R. R car (out 'se)	Left foot bruised.
332	Brooklyn	Gordon Black	9-23-08	Negro	Unk 'n	25	Car Dropper	Caught by R. R car (out 'se)	Back strained.
333	Minden No. 2	George Green	9-24-08	American	3 yrs	25	Driver	Fall of slate	Wrist broken.
334	Brooklyn	Sime Slabitch	9-24-08	Polish	10 mos	20	Loader	Fall of slate	Left side and foot bruised.
335	Collins No. 2	Karl Dwiez	9-26-08	Hungari 'n	10 yrs	30	Miner	Fall of slate	Left leg fractured.
336	Dungen	John Cassell	9-26-08	American	3 yrs	25	Miner	Fall of slate	Back sprained.
337	Sugar Creek No. 2	William Jordon	9-28-08	Negro	Unk 'n	18	Trippleman	Caught between R. R. cars (outside)	Ankle mashed.
338	Buffalo	Charley Gumpsey	9-29-08	Italian	Unk 'n	25	Laborer	Mine cars	Bruised.
339	Ulean	James Reed	10-1-08	American	3 yrs	36	Miner	Fall of slate	Left leg fractured
340	Beechwood No. 1	Theo. Grace	10-1-08	Negro	8 yrs	30	Miner	Fall of coal	Leg injured.
341	Kay Moor No. 2	Elijah Lane	10-4-08	Negro	5 yrs	24	Driver	Mine car	Strained ligaments.
342	Rush Run	Wm. Richards	10-5-08	American	Unk 'n	32	Miner	Caught by post	Foot mashed.
343	Epiram	James Eppling	10-6-08	American	30 yrs	25	Miner	Fall of slate	Hip, collar bone & 7 ribs broken.
344	Red Ash	Wm. Sanders	10-7-08	Negro	3 yrs	25	Miner	Flying Coal	Back injured.
345	Minden No. 3	Payton Lucas	10-7-08	American	2 yrs	18	Fireman	Electric Motor	Bruised hips and shoulders.
346	Collins No. 2	William Reese	10-8-08	Negro	Unk 'n	23	Fireman	Bursting of boiler pipe	Scalded.
347	Collins No. 2	Peter Benko	10-8-08	Hungari 'n	20 yrs	42	Miner	Fall of slate	Right leg fractured.
348	Rush Run	John Japies	10-12-08	Negro	Unk 'n	35	Driver	Fall of coal	Leg broken; contusion over back and side.
349	Sherwood	Andrew Thompson	10-15-08	American	6 yrs	20	Driver	Struck by timber (o 'side)	Leg broken.
350	Export	Wm. Carrol	10-15-08	Irish	2 yrs	36	Miner	Fall of slate	Back mashed.
351	Brooklyn	Mike Carl	10-16-08	Russian	Unk 'n	30	Loader	Fall of slate	Back injured.
352	Laxland	James Johnson	10-17-08	Negro	7 yrs	25	Mch. Helper	Mine cars (outside)	Bruises and contusions.
353	Brooklyn	Muloek Tarashink	10-17-08	Russian	4 mos	25	Mch. Helper	Mining Machinery	Fingers bruised.
354	Lookout	George Hitt	10-17-08	American	10 yrs	32	Driver	Kicked by mule	Bruised on head and back.
355	Collins No. 2	Joe Bogda	10-17-08	Hungari 'n	17 yrs	35	Trackman	Caught by feed wire	Right leg broken.
356	Derrydale	Major Thomas	10-28-08	American	5 yrs	25	Miner	Fall of slate	Leg broken.
357	Beechwood No. 1	Thos. Martin	11-6-08	Negro	8 yrs	20	Driver	Kicked by mule	Mouth injured.
358	Kilsyth	William R. Thomas	11-6-08	Negro	3 yrs	20	Water Bailor	Mine cars	Left foot mangled.
359	Sun	John Wright	11-6-08	Negro	2 yrs	30	Driver	Mine cars	Back injured.
360	Export	Erastus Adkins	11-10-08	American	2 yrs	45	Miner	Fall of slate	Thumb mashed.
361	Brooklyn	Mike Petoskey	11-11-08	Polish	Unk 'n	28	Loader	Fell'd windline (o 'side)	Head and body bruised.
362	Red Ash	P. Antonio	11-12-08	Italian	Unk 'n	47	Loader	Rolling stone (outside)	Right arm broken.
363	Mecca	Mack Shelton	11-14-08	American	14 yrs	30	Miner	Fall of coal	Foot mashed, back injured.
364	Present No. 5	Wm. Howard	11-14-08	Negro	24 yrs	40	Miner	Mine cars (outside)	Finger injured.
365	Present No. 5	Chas. W. Parrish	11-14-08	Negro	25 yrs	40	Miner	Mine cars (outside)	Leg bruised.
366	Prudence	James Farmer	11-16-08	American	10 yrs	35	Miner	Mine cars	Finger cut off.
367	Keeneys Creek	Lewis A. Holliday	11-17-08	American	10 yrs	26	Miner	Explosion of dynamite cap (outside)	Hand blown off.
368	Turkey Knob	H. B. Hedrick	11-17-08	American	5 yrs	22	Miner	Fall of slate	Ankle sprained.
369	M. B. No. 5	Thomas Bonds	11-27-08	American	11 mos	24	Miner	Fall of coal	Foot mashed.
370	Rush Run	Chas. McGee	11-27-08	American	Unk 'n	30	Miner	Fall of slate	Back and hands bruised.
371	Sherwood	Sandy Thompson	11-24-08	Szech 'ch	40 yrs	26	Miner	Blown out shot	Hands, arms and neck burned.
372	Carbro	Andrew Tizbri	11-24-08	Polish	16 mos	21	Miner	Fall of coal	Leg broken.
373	Itemook	J. W. Golf	11-25-08	American	2 yrs	25	Trackman	Mine cars	Bruises.
374	Rush Run	Frank Savage	11-26-08	Russian	Unk 'n	25	Miner	Mine cars	Wrist sprained.
375	Minden No. 4	P. J. Cosgrove	11-27-08	American	45 yrs	60	Timberman	Struck by post	Leg broken.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
	<i>Fayette County—</i>								
376	Red Ash	Con't.	12- 2-08	American	Unk'n	45	Miner	Fall of slate	Foot bruised.
377	Rush Run	Joe Ankers	12- 3-08	American	Unk'n	25	Brakeman	Electric motor	Crushed internally.
378	Red Ash	Mose Waldron	12- 3-08	American	3 yrs.	30	Miner	Fall of coal	Head and face burned.
379	Brooklyn	Dave Davidson	12- 3-08	Negro	3 yrs.	30	Miner	Mine cars (outside)	Arm and wrist sprained.
380	Red Ash	Thos. J. Harris	12- 3-08	American	Unk'n	22	Laborer	Fall of coal	Leg broken.
381	Star	Tim Boyd	12- 8-08	Negro	3 yrs.	40	Miner	Mine cars	Scalp wound, eye bruised.
382	Kilysyth	Mike Knotts	12-10-08	Polish	2 yrs.	40	Miner	Fall of slate	Ribs fractured, nose injured.
383	Kilysyth	John Gravelly	12-14-08	American	2 yrs.	23	Driver	Fall of slate	Ankle sprained.
384	Macdonald	Victor Moroviles	12-18-08	Hungari'n	20 yrs.	40	Miner	Fall of coal	Hip dislocated.
385	Sun	Elijah Medley	12-18-08	Negro	8 yrs.	31	Miner	Fall of slate	Left leg broken.
386	Minden No. 5	Joe Bush	12-21-08	Hungari'n	Unk'n	22	Laborer	Fall of slate	Leg broken.
387	Sun	Peter Malone	12-24-08	Litvitch	10 yrs.	32	Miner	Blown out shot	Head and face burned.
388	Sherwood	Edward Fowler	12-28-08	Negro	2 yrs.	35	Miner	Mine cars	Face cut and bruised.
389	Minden No. 2	Hood Davis	12-30-08	Negro	Unk'n	23	Driver	Mine cars	Ribs broken, side injured.
390	Turkey Knob	William Robinson	12-30-08	American	Unk'n	19	Driver	Fall of slate	Right leg broken.
391	Diamond	William Randolph	12-31-08	American	Unk'n	40	Mch. Helper	Mining Machinery	Collar bone broken.
392	Sherwood	D. Ford	1- 1-09	Negro	Unk'n	45	Miner	Fall of slate	Mashed through breast and ribs
393	Export	Geo. Wilza	1- 4-09	Polish	2 yrs.	38	Laborer	Run over by dummy	Both bones of right leg fract'r'd
394	Alaska	Jeff W. Pugh	1- 4-09	American	1 yr.	28	Miner	Jumped from monitor (outside)	Head and face cut, body bruised.
395	Nuttall	William Monroe	1- 5-09	Negro	15 yrs.	28	Miner	Mine cars	Bruises.
396	Brooklyn	Harry Dicker	1- 6-09	American	3 yrs.	17	Brakeman	Fall of scaffold (outside)	Forehead cut.
397	Rush Run	Chas. Firecock	1- 8-09	Hungari'n	Unk'n	42	Carpenter	Coke machine (outside)	Hip bruised.
398	Rush Run	John Munkel	1- 8-09	Italian	Unk'n	30	Laborer	Mine cars	Comp. fracture of leg.
399	Minden No. 3	C. M. Jarrell	1-11-09	American	25 yrs.	37	Miner	Fall of coal	Back injured.
400	Collins	Mike Blinar	1-11-09	Hungari'n	20 yrs.	45	Miner	Mine cars	Head and shoulder injured.
401	Minden No. 3	Wm. James	1-11-09	American	25 yrs.	39	Miner	Fall of slate	Head cut, shoulder dislocated.
402	Minden No. 3	Mike Sudth	1-11-09	Lithuan'n	2 yrs.	23	Miner	Electric motor	Comm. fracture of right leg.
403	Minden No. 2	John Wilkridge	1-11-09	Polish	2 yrs.	23	Truckman	Premature Explosion	Face lacerated.
404	Rush Run	Peter Skeps	1-12-09	Polish	Unk'n	25	Miner	Electric motor	Foot mashed, necessitating amputation.
405	Minden No. 4	George Willamsou	1-13-09	American	1 day	15	Trapper	Fall of slate	Shoulder bruised and sprained.
406	Beechwood No. 2	O. B. Horseman	1-14-09	American	Unk'n	18	Laborer	Fall of slate	Fracture of pelvis, rupture of bladder.
407	Brooklyn	O. B. Chewing	1-15-09	American	Unk'n	32	Miner	Fall of slate	Foot and ankle bruised.
408	Minden No. 2	W. A. Bailey	1-16-09	American	15 yrs.	38	Miner	Fall of slate	Leg broken.
409	Carver No. 2	James Litcomb	1-20-09	Negro	Unk'n	38	Miner	Fall of slate	

410	Mecca	J. L. Davis	1-21-09	Welsh	20 yrs	40	Miner	Fall of coal	Mashed through the pelvis.
411	Predence	Cland Tuckson	1-25-09	American	2 yrs	35	Driver	Mine cars	Mashed through hips.
412	Wingrove	Joseph Meggynson	1-26-09	American	6 yrs	19	Driver	Explosion dynamite caps	Face injured.
413	Dunlop No. 2	Mike Meggynson	1-26-09	Hungari'n	6 yrs	40	Staleman	Fall of slate	Leg fractured at ankle.
414	Kush Run	Harrison Farmer	1-26-09	American	Unk'n	58	Machine Man	Caught by machine jack	Bruised hips and ribs.
415	Macdonald	Jas. Hutchinson	1-27-09	American	20 yrs	20	Miner	Fall of slate	Leg broken, head cut.
416	Harvey	Mose Payne	2-3-09	American	3 yrs	22	Trackman	Mine cars	Eye injured.
417	Collins No. 2	Sam Stone	2-3-09	Negro	3 yrs	24	Driver	Mine cars	Mashed through hips.
418	Sun	Mack White	2-5-09	Negro	3 yrs	25	Driver	Mine cars	Dislocated and fractured wrist.
419	Laurel	Harry Whitlock	2-10-09	American	1 yr	18	Notorman	Electric motor	Hip bruised.
420	Newlyn	George Miller	2-11-09	American	15 yrs	35	Miner	Fall of slate	Arm and leg fractured.
421	Royal	Homer Richmond	2-15-09	American	8 mos.	20	Loader	Premature explosion	Eye and arm injured.
422	Kilsyth	Edward Rose	2-16-09	Negro	Unk'n	26	Miner	Fall of slate	Mashed through back and right knee.
423	Ballinger No. 1	Joseph Agee	2-16-09	Negro	22 yrs	42	Miner	Fall of slate	Hips and back bruised.
424	Sun	James Brown	2-16-09	Negro	Unk'n	27	Driver	Kicked by mule	Eye injured, wounds on face.
425	Hemlock	Toni Benighino	2-22-09	Italian	Unk'n	27	Trip Rider	Mine cars	Broken rib.
426	South	Frazier Evans	2-23-09	American	2 yrs	26	Laborer	Fall of slate	Arm broken, face bruised.
427	Oakwood	C. W. Goff	2-23-09	American	12 yrs	36	Miner	Fall of slate	Collar bone dislocated.
428	Echo	Narval Kyle	2-25-09	Negro	3 yrs	26	Trip Rider	Caught by tail rope	Leg injured above ankle.
429	Ballinger No. 1	Frank Miller	2-25-09	American	Unk'n	22	Miner	Mine cars (outside)	Arm broken, ankle sprained.
430	Wingrove	Wm. Smith	2-26-09	Hungari'n	3 yrs	34	Miner	Mine cars	Collar bone broken.
431	Black Betsy	Edward W. Kidwell	3-2-09	American	3 yrs	38	Miner	Fall of coal	Right side, arm and foot bruised.
432	Layland	Oscar Davis	3-12-09	American	3 yrs	22	Trip Rider	Electric motor	Three toes mashed.
433	Sun	George Penn	3-16-09	American	1 yr	22	Laborer	Fall of slate	Hand lacerated.
434	Turkey Knob	Emery E. Morton	3-17-09	American	16 yrs	39	Unk'n	Haulage rope	Left leg broken.
435	Fort Defiance	W. T. Sims	3-18-09	American	20 yrs	20	Miner	Fall of slate	Cuts on head.
436	Kilsyth	John Roy Henry	3-20-09	Negro	Unk'n	23	Driver	Mine cars	Nose broken, face bruised.
437	Collins	John Minch	3-27-09	Hungari'n	Unk'n	40	Miner	Fall of slate	Leg broken, cut over eye.
438	No. 1	L. Six	3-30-09	American	Unk'n	27	Mechanic	Fell from tippie (outside)	Face and side lacerated, chest and back bruised.
439	No. 1	George Matheny	3-30-09	American	6 yrs	24	Mechanic	Fell from tippie (outside)	Comp. fracture of elbow, head fractured.
440	Red Ash	Martin Ranock	4-5-09	Hungari'n	1 yr	24	Miner	Fall of slate	Ankle bone broken.
441	Red Ash	Mike Rewosh	4-5-09	Hungari'n	3 yrs	33	Miner	Fall of slate	Leg and four ribs broken.
442	Whipple	Walter Dodson	4-5-09	Slavish	18 yrs	37	Miner	Fall of slate	Mashed through hips and back.
443	Dunglen	Joseph Chrostroski	4-7-09	Slavish	3 yrs	35	Miner	Fall of slate	External bruises.
444	Brooklyn	Banks Long	4-10-09	Negro	3 yrs	26	Mach. Runn'r	Foot of coal	Foot mashed.
445	Ansted	William Brown	4-13-09	Negro	3 yrs	24	Miner	Fall of slate	Hips and legs bruised.
446	Minden No. 3	Robert Fields	4-21-09	American	12 yrs	19	Brakeman	Electric motor	Two toes broken, foot mashed.
447	Minden No. 3	A. Griffith	4-22-09	American	Unk'n	50	Laborer	Mine cars	One finger off.
448	Beechwood No. 2	Robert Lasley	4-26-09	Negro	7 yrs	30	Driver	Kicked by mule	Mouth injured.
449	Layland	Lewis Teste	4-27-09	Italian	2 yrs	19	Miner	Mine cars	Sprained through hips.
450	Mecca	William D. Gay	4-28-09	American	8 yrs	24	Driver	Fall of slate	Head cut, leg bruised.
451	Ridgeview	Walter Copeland	4-28-09	American	Unk'n	24	Miner	Fall of slate	Back dislocated.
452	No. 2 North	Tony Capon	4-28-09	Italian	3 yrs	22	Driver	Mine cars	Left leg fractured.
453	Brown	Pendleton Porterfield	4-28-09	Negro	2 yrs	22	Miner	Fall of slate	Hips bruised.
454	Layland No. 2	Jos. Jesenski	5-4-09	Polish	3 yrs	19	Miner	Mine cars	Sprained wrist.
455	Rush Run	Ed. Yancey	5-10-09	American	6 yrs	24	Miner	Fall of coal	Leg broken.
456	Beechwood No. 2	Watt Chambers	5-11-09	Negro	6 mos.	25	Miner	Fall of slate	Collar bone broken.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
	<i>Fayette County—</i>								
457	Elkridge No. 2	Con'tl.							
458	No. 2 North	William Delay	5-17-09	American.	4 yrs	16	Laborer	Mine cars	Bruises.
459	Echo	Tobie Kinder	5-17-09	American.	1 mo	14	Trapper	Mine cars	Rib broken, foot cut.
460	No. 2 North	Wm. Harper	5-17-09	Negro	2 yrs	28	Driver	Mine cars	Ankle broken.
461	Kilsyth	A. D. Smith	5-24-09	American.	2 yrs	30	Mel. Helper	Caught by mach. truck	Toe amputated.
		A. H. Lewis		American.	2 yrs	28	Miner	Fall of slate	Comp. fracture of left leg.
462	Kilsyth	Obe Clendenen	5-26-09	American.	Unk'n	27	Miner	Fall of slate	Mashed through hips and back.
463	Brooklyn	Michael Beal	5-26-09	American.	Unk'n	45	Laborer	Fall of slate	Foot injured, one toe off.
464	Macdonald	Michae Criss	5-28-09	American.	18 mos	25	Miner	Fall of coal	Sprained back, bruised ankle.
465	Rush Run	Mike Tallowick	6- 4-09	Slavish	20 yrs	40	Miner	Fall of slate	Collar and jaw bone broken.
466	Rush Run	Mike Frandlewicz	6- 4-09	Slavish	Unk'n	40	Miner	Fall of slate	Leg broken.
467	Macdonald	George Hicks	6- 5-09	Negro	5 yrs	32	Miner	Fall of coal	Right leg lacerated.
468	Brown	Wm. Woodson	6- 7-09	Negro	6 yrs	23	Miner	Jumped from monitor (outside)	Mashed through back and hips.
469	Brown	Steven Jones	6- 7-09	Negro	8 yrs	17	Miner	Jumped from monitor (outside)	Knee injured.
470	Tharmond No. 1	Conrad Morgan	6- 7-09	American.	15 yrs	30	Miner	Fall of slate	Bruised on head.
471	Kilsyth	W. H. Thompson	6- 8-09	American.	Unk'n	36	Contractor	Mine cars	Back wrenched.
472	Columbia No. 5	Walter Gill	6- 9-09	American.	10 yrs	32	Foreman	Fall of coal	Right thigh bruised.
473	Brooklyn	James Robinson	6- 9-09	American.	3 mos.	28	Laborer	Fall of slate	Right leg fractured, bladder ruptured.
474	Layland	Tory Charlie	6-10-09	Italian	2 yrs	17	Miner	Fall of slate	Ankle sprained.
475	Prudence	George Honaker	6-11-09	American.	4 yrs	20	Driver	Mine cars	Face bruised.
476	Parral	John Williams	6-14-09	American.	2 yrs	35	Driver	Mine cars	Collar bone broken, mashed through chest.
477	Nuttall	Noah Syner	6-18-09	American.	10 yrs	25	Miner	Fall of slate	Chest and body bruised.
478	No. 2 North	Frank Samuel	6-18-09	Italian	4 yrs	23	Miner	Fall of coal	Leg broken.
479	Kilsyth	Charles C. Turner	6-21-09	American.	2 yrs	25	Driver	Fall of slate	Upper and lower jaw bone fract'd
480	Brown	Wesley W. Warner	6-23-09	American.	6 yrs	35	Miner	Fall of slate	face cut, teeth knocked out.
481	San	Ignall Wilkchoose	6-25-09	Hungari'n	Unk'n	35	Miner	Fall of slate	Shoulders injured.
482	Rush Run	Steve Renosira	6-26-09	Slavish	3 yrs	24	Miner	Mine cars	Both bones in right leg broken.
483	Minden No. 2	Wm. Conway	6-30-09	American.	40 yrs	50	Miner	Fall of slate	Body squeezed.
	<i>Kanawha County.</i>								
484	Imperial No. 3	Phillip Miller	7-21-08	American.	3 yrs	30	Driver	Kicked by mule	Bruised hips and thighs.
485	Shamrock	George Dyar	7-28-08	American.	Unk'n	23	Miner	Fall of slate	Upper jaw bone broken.
									A fract. and dislocated vertebra

486 Blakely	Steve Drazetic	7-28-08	Slavish	3 yrs	35 Miner	Fall of slate	Injury to back and spinal cord.
487 Kaxford	D. J. Williams	8-12-08	American	20 yrs	45 Miner	Fall of coal	Back and shoulders sprained.
488 H. & S. No. 5	Frank Adams	9-9-08	American	12 yrs	33 Loader	Fall of slate	Hip bruised.
489 W. Va. No. 2	Degorge Tquaril	9-12-08	Italian	8 yrs	18 Tripper	Mine cars (outside)	Collar bone broken.
490 Knickerbocker	Frank Stephenson	9-18-08	American	2 yrs	27 Miner	Flying coal	Left leg broken.
491 Standard	John Hume	9-30-08	Negro	3 yrs	40 Miner	Flying coal (outside)	Side injured.
492 Rose	Leslie Stamper	10-6-08	American	5 mos	14 Brakeman	Electric motor (outside)	Leg crushed, necessitating amputation.
493 Greenbrier No. 2	William Clark	10-7-08	American	7 yrs	22 Driver	Mine cars	Chest mashed.
494 Berlin	Mike Farvus	11-6-08	Slavish	1 yr	40 Loader	Fall of coal	Head cut.
495 United Gas No. 1	Geo. Collins	11-16-08	Slavish	Unk'n	19 Driver	Caught between roof and water box	Spine injured.
496 Imperial No. 3	Jess Holshin	11-19-08	American	10 yrs	30 Mach. Runner	Fall of slate	Body mashed.
497 Williams	Frank H. Woodrum	11-24-08	American	10 yrs	25 Miner	Fall of slate	Right leg broken.
498 Scranton	Hansford Neal	11-24-08	American	Unk'n	5 Dock Boss	Flying coal (outside)	Comp. fracture of skull.
499 Ronda	Samuel Hensley	12-1-08	American	15 yrs	30 Miner	Fall of slate	Back and foot strained.
500 Standard	James J. Johnson	12-1-08	American	5 yrs	30 Weighman	Mine cars (outside)	Cuts on body, left ankle bruised.
501 Standard	Harry Johnson	12-1-08	American	4 yrs	20 Welshman	Mine cars (outside)	Scalp wound.
502 Standard	Mitch Woody	12-1-08	American	5 yrs	25 Laborer	Mine cars (outside)	Ankle joint bruised, ligaments of same ruptured.
503 Imperial No. 3	Ben H. Marshall	12-12-08	American	2 yrs	31 Mach. Runner	Fall of coal	Strained ankle.
504 Belmont	Thomas Kelley, Jr.	12-16-08	American	5 yrs	20 Driver	Mine cars	Cuts on head, back crushed.
505 Berlin	R. K. Kounts	12-29-08	American	20 yrs	45 Miner	Premature Explosion	Eyes badly burned.
506 Lamont No. 3	Robert Merricks	1-11-09	American	Unk'n	18 Trip Rider	Mine cars (outside)	Right arm crushed.
507 Keystone	Marion Foster	1-15-09	American	Unk'n	17 Laborer	Electric motor (outside)	Right hand mashed, necessitating amputation.
508 Hughston	Curtis Pullen	1-19-09	Negro	15 yrs	35 Driver	Mine cars (outside)	Foot mashed.
509 W. Va. No. 1	Mat Johnson	1-27-09	Negro	3 yrs	33 Miner	Fall of Coal	Leg fractured.
510 Oakley	Ellis Kidd	2-5-09	American	1 yr	20 Driver	Mine cars	Hips and back injured.
511 Berlin	C. A. Legg	2-8-09	American	Unk'n	22 Tipplesman	Mine cars (outside)	Shoulder dislocated, chest injured.
512 United Splint	Dominick Cupeyo	2-22-09	Italian	Unk'n	46 Miner	Fall of slate	Scalp wounds, back and right side wrenched.
513 Belleclare	Joe Bogack	2-26-09	Russian	Unk'n	21 Miner	Fall of slate	Leg lacerated, bladder ruptured.
514 W. Va. No. 1	Sam Juniper	2-27-09	American	Unk'n	43 Miner	Fall of coal	Scalp and left shoulder injured.
515 W. Va. No. 4	Frank Mead	3-8-09	American	Unk'n	20 Motorman	Mine cars	Leg cut and bruised.
516 South Horton	John Cassel	3-10-09	American	3 yrs	30 Miner	Fall of slate	Back bruised.
517 Oakley	Jas. Roberts	3-13-09	Negro	Unk'n	22 Driver	Mine cars	Ankle cut.
518 Hughston No. 2	Wm. Holmes	3-19-09	Negro	2 yrs	30 Driver	Mine cars	Collar bone broken.
519 Oakley	Tom Cole	3-22-09	American	Unk'n	30 Tipplesman	Flying coal (outside)	Broken finger.
520 United Gas No. 1	John Rockett	3-25-09	Italian	Unk'n	28 Laborer	Struck by post	Finger cut.
521 Greenbrier No. 2	Pete Anderson	3-25-09	Unknown	3 mos	18 Laborer	Mine cars	Knee bruised.
522 Oakley	Pete Scales	3-27-09	Negro	Unk'n	23 Driver	Mine cars	Foot sprained.
523 W. Va. No. 1	W. W. Pannell	4-1-09	Negro	Unk'n	35 Miner	Fall of coal	Instep bruised.
524 W. Va. No. 1	Oscar McKinney	4-5-09	American	Unk'n	45 Miner	Fall of coal	Bruised back and hips.
525 Buckeye	Dave Smith	4-26-09	Negro	3 yrs	27 Miner	Struck by pole (outside)	Leg broken.
526 W. Va. No. 1	Dave Stein	4-29-09	American	1 yr	18 Miner	Mine cars	Left leg broken.
527 Paint Creek	A. R. Johnson	5-4-09	American	20 yrs	32 Miner	Fall of slate	Comp. fracture of left leg.
528 South	Ira Edleman	5-12-09	American	Unk'n	23 Mach. Helper	Fall of slate	Body bruised.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nationality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Kanawha County.</i>									
529	New Coalburg	Con't.							
530	Hughes No. 2	Harry Robson	5-14-09	English	17 yrs	30	Macl. Runner	Caught by machine truck	Finger mashed.
531	Grose No. 1	E. H. Johnson	5-17-09	American	7 yrs	40	Miner	Fall of slate	Foot and leg cut and mashed.
532	Greenbrier No. 2	Lafayette Morris	5-19-09	American	2 yrs	16	Motorman	Mine cars	Hand mashed.
533	Paint Creek	Garfield Edds	5-22-09	American	5 yrs	23	Miner	Flying coal	Eye injured.
534	Grose No. 1	J. E. Garrison	5-27-09	American	6 yrs	31	Miner	Fall of coal	Right leg lacerated.
535	Grose No. 2	Clarence Parsons	6-2-09	American	4 yrs	16	Trip Rider	Mine cars (outside)	Leg mashed.
		Stephen Osborne	6-9-09	American	Unk'n	30	Miner	Fall of coal	Eye injured, nose and jaw bone fractured.
536	Queen Shoals	Frank Speck	6-12-09	German	29 yrs	45	Miner	Fall of slate	Bruises.
537	North Carbon	Andy Silbardin	6-12-09	Hungarian	Unk'n	45	Miner	Fall of slate	Fingers lacerated.
538	North Carbon	Jim Martin	6-15-09	American	Unk'n	42	Miner	Fall of slate	Arm cut, hip dislocated.
539	Butler	Charles Tucker	6-22-09	American	1 yr	16	Miner	Fall of slate	Spine dislocated.
<i>Nicholas County.</i>									
540	Raven	John L. Webb	10-14-08	American	3 mos.	41	Laborer	Fall of slate	Leg broken.
541	Fenwick	Arthur Mausure	12-19-08	American	Unk'n	22	Supt	Premature blast	Face and eyes burned.
<i>Raleigh County.</i>									
542	Dorothy	Wm. Wright	7-2-08	American	5 yrs	25	Miner	Mine cars	Comp. fracture of cavicle.
543	Beckley	Austin Cottle	7-10-08	American	2 yrs	24	Miner	Fall of slate	Wound on leg.
544	Piney No. 3	Edward Warden	8-6-08	American	3 yrs	19	Driver	Kicked by mule	Leg dislocated.
545	Mabscott	William Scott	8-10-08	Negro	6 yrs	23	Driver	Mine cars	Left hand cut and bruised.
546	Beckley	Henry B. Brewer	8-11-08	American	10 yrs	30	Miner	Fall of slate	Left leg strained and bruised.
547	Wright No. 1	Forest Brace	8-11-08	American	3 yrs	19	Miner	Fall of slate	Collar bone broken.
548	Piney No. 2	Frank Miller	8-12-08	American	18 mos.	20	Driver	Mine cars	Squeezed through hips and abdomen.
549	Lanark No. 10	Cleve Fuller	8-22-08	American	5 yrs	24	Miner	Fall of slate	Broken leg, mashed through hips
550	Graham	Lemuel Smith	8-25-08	American	Unk'n	26	Mine Boss	Fall of slate	Collar bone fractured, scalp and face lacerated.
551	Sprague	Jas. Spangler	8-25-08	American	20 yrs	38	Miner	Fall of slate	Head, hips and leg bruised.
552	Mabscott	Fred Pack	8-28-08	American	1 yr	15	Trapper	Fall of slate	Back bruised, arm cut.
553	Raleigh No. 6	Davey Furgeson	8-28-08	Scotch	15 yrs	29	Miner	Fall of slate	Leg broken, back mashed.
554	Raleigh No. 5	Kirby Miller	9-1-08	American	4 yrs	26	Miner	Fall of slate	Back sprained, leg and foot mashed.
555	Terry	Milton Hobbs	9-22-08	American	Unk'n	20	Miner	Fall of slate	Leg broken, collar bone fractured
556	Dorothy	Nicolo Audriono	9-23-08	Italian	Unk'n	28	Laborer	Fell from R. car (outside)	Scalp cut, back bruised.
557	Beckley	Robt. Evans	9-28-08	American	3 mos.	39	Trackman	Mine cars	Foot bruised.

558	Cranberry	George Stewart	9-28-08	American	15 yrs	37 Miner	Fall of slate	Back and breast hurt.
559	Beckley	Joan Roscano	10-14-08	Italian	18 mos	23 Miner	Fall of slate	Foot mashed.
560	Raleigh No. 3	Robert Fleming	10-15-08	Scotch	10 yrs	30 Miner	Fall of slate	Leg bruised.
561	Price Hill	Wm. George Parrish	10-17-08	Negro	Unk'n	35 Miner	Struck by falling piece of pipe in shaft	Scalp wound.
562	Raleigh No. 6	John Harris	10-22-08	American	5 yrs	21 Mch. Runner	Mining machine	Leg broken.
563	Tamroy	Charley Allen	10-28-08	American	Unk'n	20 Trip Rider	Electric motor	Knee injured, leg fractured.
564	Beckley	Steve Alonge	10-30-08	Italian	Unk'n	25 Miner	Fall of slate	Finger broken.
565	Raleigh No. 6	Chris Hauley	11-10-08	American	3 yrs	22 Miner	Mine cars	Leg broken.
566	Raleigh No. 6	Joe Brown	11-11-08	American	4 yrs	35 Mch. Helper	Fall of slate	Back and hips bruised.
567	Dorothy	Clarence Harris	11-12-08	Negro	12 yrs	26 Brakeman	Mine cars	Ankle bruised.
568	Terry	P. T. Walls	11-16-08	American	6 wks	25 Laborer	Fall of slate	Foot mashed.
569	Raleigh No. 6	Max McCluckey	11-17-08	Scotch	12 yrs	33 Miner	Fall of slate	Foot bruised.
570	Raleigh No. 6	Sam Wilson	11-18-08	American	5 yrs	35 Statesman	Fell over hillside (o. s.)	Right leg broken.
571	Beckley	Willie Harris	11-23-08	American	1 yr	16 Driver	Thrown from mule	Three ribs broken.
572	Beckley	Robt. Evans	12-21-08	American	6 mos	30 Trackman	Mine cars	Finger broken.
573	Dorothy	Wm. Shannon	12-22-08	Negro	Unk'n	25 Motorman	Mine cars	Leg broken.
574	Beckley	Sam Servenuel	12-23-08	Polish	2 mos	21 Miner	Mine cars	Right leg broken.
575	Oswald	George Kerlingchok	12-25-08	Polish	5 yrs	33 Laborer	Mine cars	Two ribs broken.
576	Beckley	Dominic Martino	1- 6-09	Italian	1 yr	28 Miner	Fall of slate	Knee bruised, left hip dislocated.
577	Beckley	Sidnor Victoria	1- 6-09	Italian	1 yr	24 Driver	Mine cars	Little finger mashed off.
578	Dorothy	Robert Mays	1-14-09	Negro	10 yrs	24 Miner	Fall of coal	Shoulders mashed, ankle sprained.
579	Raleigh No. 6	Wayley King	1-14-09	American	1 yr	30 Miner	Fall of slate	Back sprained.
580	Dorothy	J. K. Hasten	1-14-09	Negro	8 yrs	48 Miner	Fall of coal	Three fingers off, head cut, shoulders bruised.
581	Raleigh No. 6	Wilbur Man	1-20-09	American	1 yr	25 Laborer	Mine cars (outside)	Two bones broken in right foot.
582	Wright No. 1	Archie Watson	1-20-09	Negro	4 yrs	28 Miner	Mine cars (outside)	Hand mashed.
583	Dorothy	S. H. Pettry	1-21-09	American	10 yrs	38 Mine Foreman	Mine cars (outside)	Bruises on leg.
584	Raleigh No. 3	Rappold Pokh	2-10-09	Slavish	6 yrs	35 Miner	Fall of slate	Collar bone and three ribs brok'n
585	Wright No. 2	Lee Elam	2-17-09	American	25 yrs	51 Miner	Fall of slate	Collar bone broken.
586	Cranberry	William Blades	2-17-09	American	10 yrs	29 Fire Boss	Mine cars	Right leg broken.
587	Sprague	Robt. Matheny	2-18-09	Negro	10 yrs	35 Miner	Fall of slate	Right leg fractured.
588	Stonewall No. 3	C. L. Simms	2-25-09	Negro	5 yrs	35 Miner	Fall of slate	Shoulder bruised, ear cut.
589	Stonewall No. 3	Yenive Wilchett	3- 1-09	Negro	2 yrs	30 Driver	Mine cars	Ankle sprained.
590	Dorothy	August Grass	3- 5-09	Polish	9 yrs	30 Miner	Explosion of powder	Neck and arms burned.
591	Dorothy	J. S. Stanley	3- 5-09	American	20 yrs	33 Motorman	Kicked by mule	Face and neck burned.
592	Oswald	Albert F. Wilkinson	3-15-09	American	8 yrs	28 Miner	Fall of slate	Nose broken, mouth injured.
593	Graham	Dalis McCormack	3-16-09	Negro	Unk'n	30 Miner	Mine cars	Comp. fracture of arm.
594	Graham	Pencela Gaxoni	3-17-09	Italian	18 mos	24 Laborer	Mine cars	Two fingers injured.
595	Oswald	Will B. Smith	3-22-09	American	10 yrs	25 Driver	Mine cars	Shoulders, head and hips bruised
596	Wright No. 2	Robert Yancy	3-29-09	American	19 days	22 Trip Rider	Knock'd by monitor (outside)	Chest mashed, collar bone broken.
597	Price Hill	Richard Lewis	4- 6-09	American	8 yrs	20 Trip Rider	Mine cars	Hand mashed.
598	Cranberry	Will Ross	4-10-09	American	2 yrs	27 Miner	Fall of slate	Back bruised.
599	Beckley	W. H. Nicholas	4-13-09	American	12 yrs	36 Miner	Mine cars	Hand mashed.
600	Raleigh No. 4	Robert Mahoney	4-13-09	American	4 yrs	30 Statesman	Fall of slate	Right arm broken.
601	Raleigh No. 6	R. L. Mays	4-14-09	American	2 yrs	21 Trip Rider	Electric motor	Toe mashed.
602	Dorothy	Pumey Cortrell	4-14-09	American	8 yrs	18 Brakeman	Mine cars	Comp. fracture of left leg.
603	Mabscott	Charles Shellough	4-15-09	Negro	15 yrs	40 Miner	Fall of slate	Back and shoulder bruised.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Raleigh County.</i>									
604	Beckley	Con't.							
605	Raleigh No. 1	J. F. Nichols	4-15-09	American.	15 yrs	30	Miner	Flying steel	Eye injured.
		Clifton Hamilton	4-17-09	American.	10 yrs	45	Miner	Fall of slate	Leg, collar bone and ribs broken, back bruised.
606	Blue Jay No. 4	Barney McQuade	4-20-09	Scotch	20 yrs	42	Miner	Fall of slate	Leg fractured.
607	Beckley	J. A. Carney	4-26-09	American.	Unk'n	27	Trip Rider	Electric motor	Foot mashed.
608	Skellon	James Burdette	5-4-09	American.	10 yrs	25	Driver	Electric motor	Leg broken.
609	Piney No. 4	W. A. Mitchell	5-5-09	Negro	6 yrs	38	Miner	Fall of slate	Body bruised.
610	Raleigh No. 5	Vern Mitchell	5-15-09	American.	4 yrs	26	Miner	Fall of slate	Left leg broken.
611	Beckley	Samuel Crowder	5-23-09	Negro	5 yrs	20	Miner	Fall of slate	Left leg broken.
612	Slab Fork	Alex Travis	5-26-09	Negro	Unk'n	24	Mach. Helper	Fall of coal	Hips of left leg fractured.
613	Price Hill	Lumley C. Farley	5-26-09	American.	3 yrs	20	Tippelman	Mine cars (outside)	Bones broken.
614	Slab Fork	W. J. Rateliff	5-27-09	American.	10 yrs	36	Miner	Explosion of powder	Eyes burned.
615	Piney No. 4	Andrew Mickey	6-3-09	Negro	9 yrs	25	Miner	Fall of slate	Back injured.
616	Piney No. 4	W. L. Dickerson	6-3-09	American.	4 yrs	23	Miner	Fall of slate	Back injured.
617	Piney No. 4	Andrew Mickey	6-5-09	American.	Unk'n	24	Slateman	Fall of slate	Body squeezed.
618	Raleigh No. 1	Luther Sherman	6-7-09	American.	6 yrs	25	Miner	Fall of slate	Leg broken, foot mashed.
619	Price Hill	Joe Cornman	6-8-09	Polish	1 yr	26	Miner	Premature explosion	Face and eyes burned.
620	Tamroy	Alfonso Vercelli	6-9-09	Italian	2 yrs	26	Miner	Fall of slate	Internal injuries, hip bruised.
621	Piney No. 1	Calvin Surber	6-11-09	American.	2 yrs	18	Motorman	Mine cars	Arm cut.
622	Dorothy	Chas. E. Pauley	6-12-09	American.	25 yrs	35	Miner	Fall of slate	Cuts on head.
623	Beckley	J. A. Carney	6-12-09	American.	15 yrs	27	Trip Rider	Mine cars	Foot injured.
624	Beckley	U. Elgerton	6-17-09	Italian	4 yrs	27	Miner	Fall of slate	Arm broken.
625	Beckley	Frank Parks	6-18-09	Negro	3 yrs	27	Miner	Fall of slate	Leg broken.
626	Raleigh No. 6	Charles Farver	6-21-09	Hungari'n	2 yrs	20	Miner	Fall of slate	Head cut, back bruised.
627	Beckley	Jake Ayers	6-23-09	Negro	2 yrs	20	Miner	Fall of slate	Back and hips injured.
<i>Mercer County.</i>									
628	Coaldale	William Gray	7-2-08	Negro	1 yr	15	Trapper	Fall of slate	Index finger mashed, necessitating amputation.
629	Louisville	Thos. Wade	7-2-08	Negro	2 yrs	35	Miner	Flying coal	Left leg broken.
630	Louisville	Thomas L. Payne	7-8-08	Negro	15 yrs	35	Miner	Fall of slate	Mashed through chest, cut over left eye.
631	Crane Creek No. 1	Carl Melak	7-18-08	Hungari'n	2 yrs	21	Miner	Fall of slate	Back injured.
632	Mill Creek	George Stanger	7-18-08	American.	Unk'n	12	Coupler	Mine cars (outside)	Comp. fracture of left arm.
633	Crystal	Earnest Perkins	7-23-08	American.	Unk'n	17	Trapper	Mine cars	Right leg injured.
634	Thomas	Wm. Hughes	7-25-08	Negro	10 yrs	30	Miner	Mine cars	Bruises, hip dislocated.

635 Weyanoke	Preston, Poindexter	7-27-08	Negro	2 yrs	45 Miner	Fall of coal	Collar bone broken.
636 Crane Creek No. 1	Frank Butch	8-21-08	Italian	2 yrs	21 Laborer	Mine cars	Left foot fractured.
637 Louisville	Joe Hopkins	8-13-08	Negro	10 yrs	28 Miner	Struck by pick	Hand injured.
638 Coaldale	Oscar Byrd	8-17-08	American	2 yrs	30 Miner	Fall of slate	Neck strained, wound on head, cut over left eye.
639 Coaldale	Richard Lipscomb	8-18-08	Negro	3 days	21 Driver	Caught by tail chain	End of index finger right hand mashed off.
640 Uluawatha	Chas. Shelhorse	8-24-08	Negro	10 yrs	40 Laborer	Mine cars	One finger lacerated, two mashed off.
641 Coaldale	Albert D. Webster	8-28-08	American	9 yrs	35 Miner	Fall of slate	Three fingers mashed,
642 Caswell Creek	Charles Pillar	8-29-08	American	7 yrs	25 Driver	Mine cars	Arm fractured.
643 Pavama No. 1	Joe Shottlee	8-31-08	Hungari'n	12 yrs	40 Miner	Fall of slate	Left leg fractured.
644 Crystal	Ignace Varodi	9-14-08	Slavish	Unk'n	45 Miner	Fall of slate	Head cut, right shoulder and hip bruised.
645 Pinnacle North	Aleck Cady	9-21-08	Hungari'n	9 yrs	35 Miner	Fall of slate	Ankle sprained, arm bruised.
646 Spring	Martin V. Craft	9-25-08	American	5 yrs	30 Miner	Fall of coal	Leg broken.
647 Thomas	Peter Griches	9-25-08	Russian	2 yrs	25 Miner	Fall of slate	Skull fractured, hip dislocated.
648 Thomas	Henry Howard	9-25-08	Negro	Unk'n	45 Miner	Fall of slate	Ankle sprained.
649 Piedmont	Hubert Adkims	10- 6-08	American	2 yrs	Driver	Mine cars	Arm mashed.
650 Pavama	George Sheets	10- 9-08	American	6 yrs	30 Miner	Fall of slate	Sprained ankle, hip and back bruised.
651 Crane Creek No. 1	John Smith	10-16-08	Russian	3 yrs	30 Miner	Fall of slate	Wrist broken.
652 Spring	Sherman Shrewsbury	10-20-08	American	4 yrs	25 Brakeman	Fall of slate	Hips and back bruised.
653 Caswell Creek	Lester Fowler	11- 4-08	American	12 yrs	38 Miner	Fall of slate	Crushed through pelvis.
654 Weyanoke	Andy Taylor	11- 6-08	American	Unk'n	25 Laborer	Flying steel	Injured internally.
655 Crystal	Melvin Harmon	11-21-08	American	Unk'n	25 Driver	Mine cars	Left leg injured.
656 Crystal	Tom Milburn	11-21-08	Negro	Unk'n	30 Driver	Kicked by mule	Scalp cut.
657 Caswell Creek	Robert Muse	12- 8-08	Negro	6 yrs	18 Brakeman	Steam locomotive	Bruised side.
658 Caswell Creek	John Kesler	12- 8-08	American	8 yrs	37 Machinist	Steam locomotive	Arms, neck, face and shoulders burned.
659 Pavama No. 1	I. J. Lewis	12-10-08	Negro	20 yrs	45 Miner	Fall of coal	Hands, neck and face burned.
660 Weyanoke	J. M. Ballard	12-11-08	American	5 yrs	30 Miner	Fall of slate	Left hand mashed, head cut.
661 Crystal	Douglas MacRath	12-12-08	Negro	2 yrs	35 Miner	Fall of coal	Bones of right leg lacerated.
662 Booth Bowen	Steve Rabbi	12-14-08	Slavish	4 yrs	35 Miner	Fall of slate	Leg bruised.
663 Louisville	Thomas Wade	12-15-08	Negro	8 yrs	29 Miner	Fall of slate	Face cut.
664 Weyanoke	Orpinus Burnett	1- 5-09	American	Unk'n	23 Carpenter	Mine cars (outside)	Back bruised.
665 Crane Creek No. 2	Benjamin Tarran	1-18-09	English	8 yrs	25 Miner	Fall of slate	Two ribs fractured.
666 Coaldale	Sherman Hainston	1-21-09	Negro	12 yrs	42 Miner	Fall of slate	Arm broken, back bruised.
667 Crystal	James Watkins	1-22-09	American	2 yrs	20 Driver	Fall of slate	Comp. fracture of left leg.
668 Spring	Frank Grabar	1-30-09	Hungari'n	Unk'n	25 Laborer	Fall of slate	Knee cut.
669 Weyanoke No. 2	Dominic Wanlia	2- 5-09	Italian	22 mos	26 Miner	Fall of slate	Cuts and bruises about head.
670 Mill Creek	Toney Lapenski	2- 6-09	Polish	Unk'n	38 Miner	Fall of slate	Two ribs broken, spinal column twisted.
671 Pinnacle	William G. Tabor	2-11-09	American	15 yrs	43 Miner	Fall of coal	Thigh and leg fractured, hip dislocated, wound on face.
672 Coaldale	John W. Jamerson	2-11-09	Negro	4 mos	34 Miner	Fall of coal	Foot injured, chest & head bruised
673 Caswell Creek	Mike Chismo, Jr	2-18-09	Hungari'n	Unk'n	34 Miner	Fall of slate	Thigh and leg fractured.
674 Pinnacle	Sam Wadlington	2-20-09	Negro	13 yrs	34 Miner	Fall of slate	Nose, forearm and foot bruised.
675 Crane Creek No. 1	Lazo Moe	3-10-09	American	3 yrs	25 Miner	Fall of slate	Right leg fractured, hip bruised. Back and leg bruised.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>Mercer County.</i>									
676	Pinnacle North	Con't.	3-11-09	American	2 yrs	20	Miner	Fall of slate	Right ankle disloc'd, hips brus'd
677	Pinnacle North	John Higgins	3-19-09	American	3 yrs	22	Miner	Fall of slate	Nose injured.
678	Pinnacle South	E. A. Abe	3-20-09	American	3 yrs	22	Miner	Fall of slate	Ankle fractured.
679	Coaldale	Lewis Williamson	4-1-09	Negro	10 yrs	32	Miner	Mine cars	Ochilits.
680	Coaldale	Henry Pammel	4-1-09	Negro	10 yrs	34	Miner	Mine cars	Finger lacerated.
681	Pinnacle South	Henry Williams	4-8-09	Negro	1 yr	15	Laborer	Fall of slate	Arm fractured.
682	Coaldale	Joe Gwinn	4-12-09	Negro	1 yr	30	Driver	Mine cars	Injury to bladder.
683	Thomas	Bernard Ferdinand	4-14-09	Italian	4 yrs	26	Miner	Mine cars	Scalp wound, face lacerated.
684	Pinnacle South	Joe Cicadello	4-14-09	Italian	3 yrs	27	Miner	Fall of coal	Arm broken.
685	Coaldale	Julia Micalski	4-14-09	Russian	1 yr	36	Laborer	Struck by axe	Hand injured.
686	Coaldale	John Minorichik	4-19-09	Hungarian	6 mos.	42	Miner	Fall of slate	Wound of scalp.
<i>Mercer County.</i>									
687	Coaldale	Joseph Young	4-30-09	Negro	9 yrs	36	Miner	Fall of slate	Thumb dislocated, thigh mashed
688	Cephus	J. A. Pierce	5-4-09	American	17 yrs	34	Miner	Fall of slate	Back and hands bruised.
689	Mill Creek	Early Johnson	5-6-09	Negro	2 mos.	36	Laborer	Mine cars	Toes of right foot mashed.
690	Mill Creek	George Jones	5-7-09	Negro	2 yrs	22	Miner	Stepped on spike	Foot injured.
691	Mill Creek	Washington Williams	5-10-09	Negro	3 yrs	29	Miner	Fall of slate	Foot mashed.
692	Thomas	David T. Prichard	5-14-09	American	1 yr	15	Tippleman	Mine cars (outside)	Leg fractured.
693	Caswell Creek	Geo. Taney	5-19-09	Negro	2 yrs	38	Watchman	Steam locomotive (o. s.)	Arm fractured.
694	Mill Creek	Joseph Carter	5-21-09	Negro	2 yrs	25	Miner	Caught on spike	Ankle bruised.
695	Mill Creek	Wm. A. Williams	5-23-09	American	Unk'n	34	Laborer	Stepped on spike	Hand injured.
696	Mill Creek	Frank Almini	5-24-09	Italian	2 mos.	22	Laborer	Fall of coal	Foot injured.
697	Goodville	E. L. Lucas	5-27-09	American	2 yrs	25	Miner	Fall of slate	Mashed through hips, back strained.
698	Coaldale	Henry Baker	5-27-09	Negro	2 yrs	20	Miner	Fall of slate	Back sprained.
699	Coaldale	John Carter	5-29-09	Negro	10 yrs	37	Miner	Fall of coal	Foot and back of neck bruised.
700	Mill Creek	James Vaden	6-8-09	Negro	9 mos	29	Miner	Fall of slate	Right foot injured.
701	Coaldale	Ruben Tinsley	6-9-09	Negro	11 yrs	50	Miner	Fall of coal	Shoulder and face bruised.
702	Coaldale	Watcher Kiralf	6-11-09	Polish	3 mos.	38	Laborer	Struck by cap piece	Scalp wound.
703	Kondyke	Jas. Brooks	6-11-09	American	2 yrs	32	Miner	Fall of slate	Scalp wound.
704	Mill Creek	Floyd Edmonds	6-18-09	Negro	12 yrs	26	Miner	Fall of slate	Leg. fractured, back bruised.
705	Coaldale	Mark Covera	6-18-09	Italian	1 week	21	Laborer	Caught by post	Wound over left eye.
706	Coaldale	David Lynch	6-19-09	Negro	3 yrs	25	Driver	Fall of coal	Finger lacerated.
707	Crystal	Martin Yarosh	6-19-09	Slavish	2 yrs	30	Miner	Fall of slate	Eye injured.
708	Backeye	William Graves	6-19-09	Negro	5 yrs	27	Trackman	Fall of slate	Head cut, back bruised.
709	Coaldale	Elijah Adams	6-22-09	Negro	6 yrs	24	Driver	Mine cars	Leg broken.

710 Mill Creek	Geo. W. Smith	6-22-09	Negro	Unk'n	29	Miner	Caught bet. prop & mule	Finger injured.
711 Coaldale	W. W. Barrett	6-26-09	American	2 mos.	21	Laborer	Fall of slate	Scalp wound.
<i>McDowell County.</i>								
712 Crozer No. 2	Joe Hardar	7-1-08	Hungari'n	4 yrs	30	Miner	Mine cars	Foot mashed.
713 Crozer No. 2	John Hareron	7-1-08	Hungari'n	6 yrs	37	Miner	Fall of slate	Head cut, leg bruised.
714 Tidewater	Dominick Squillac	7-2-08	Italian	10 mos.	30	Miner	Gas explosion	Hands and face burned.
715 Jed	Baker Lee	7-2-08	American	Unk'n	29	Miner	Premature explosion	Head and face cut.
716 Berwind No. 2	John Tudor	7-3-08	Hungari'n	Unk'n	40	Shot Firer	Explosion of powder	Hands, wrists, face & neck bur'd
717 McDowell	Cicero Campbell	7-6-08	Negro	1 yr	20	Miner	Fall of coal	Ankle sprained, leg bruised.
718 North Side	John Martin	7-7-08	Negro	4 yrs	26	Miner	Premature explosion	Face and hands burned.
719 McDowell	George Musolz	7-7-08	Italian	18 mos.	20	Miner	Blown through shot	Collar bone fractured, face and arm bruised.
720 Peerless	Henry Carter	7-7-08	Negro	1 day	23	Laborer	Fall of slate	Shoulder and leg bruised.
721 Elk Ridge	Leo Past	7-8-08	Greek	4 yrs	30	Miner	Fall of coal	Leg broken.
722 Jed	V. R. Winner	7-8-08	American	Unk'n	27	Tippelman	Fell from tibble (outside)	Leg fractured.
723 U. S. No. 2	Thos. Eliffe	7-11-08	Rouman'n	2 mos	28	Miner	Fall of slate	Leg broken.
724 Berwind No. 2	Will Price	7-13-08	American	3 yrs	25	Laborer	Mine cars	Ankle bruised.
725 Eureka	John Garrett	7-15-08	Negro	Unk'n	27	Slateman	Fall of slate	Leg broken.
726 Houston No. 2	John Iskie	7-17-08	Hungari'n	2 mos	19	Miner	Fall of slate	Foot mashed.
727 Page	Allen Kade	7-18-08	American	6 yrs	21	Brakeman	Mine cars	Hips mashed and sprained.
728 Angle	Harvey Coles	7-20-08	Negro	3 mos	15	Door Boy	Caught by mine door	Left arm broken.
729 Delta	Alfred Cabell	7-21-08	Negro	1 yr	24	Miner	Fall of slate	Sprained back, lacerated lip.
730 Eureka	Link Porter	7-22-08	Negro	3 yrs	32	Slateman	Flying slate	Leg broken.
731 U. S. No. 7	William Lowry	7-24-08	Negro	3 yrs	21	Miner	Fall of slate	Foot mashed, one toe off.
732 U. S. No. 11	Charley Brown	7-24-08	American	3 yrs	19	Brakeman	Electric motor	Leg broken.
733 Peerless	John Fegora	7-25-08	Polish	2 yrs	32	Miner	Mine cars	Left leg fractured.
734 U. S. No. 1	Peter Balezoon	7-27-08	Rouman'n	9 mos	22	Miner	Fall of coal	Rib fractured, hip sprained.
735 Shamokin	William Bowling	7-28-08	Negro	1 yr	22	Driver	Mine cars	Foot lacerated.
736 Pulaski	Charles Cooney, Jr.	7-29-08	American	2 mos	23	Brakeman	Mine cars	Hands burned.
737 Bottom Creek	Lee Faulkner	8-4-08	American	6 yrs	20	Motorman	Electric shock	Head cut, two ribs broken.
738 Peerless	William Black	8-4-08	Negro	15 yrs	25	Laborer	Fall of slate	Head cut.
739 Hall No. 1	George Origger	8-6-08	American	2 mos	18	Miner	Fall of slate	Three ribs broken, chest injured.
740 Middle States No. 11	Thomas Hodnett	8-6-08	Negro	Unk'n	24	Brakeman	Mine cars	Back sprained.
741 Jed	Martin Smith	8-8-08	Polish	Unk'n	35	Miner	Fall of slate	Foot crushed.
742 Eureka	Walter Larcey	8-10-08	Negro	7 yrs	31	Miner	Fall of slate	Arm broken, face & head bruised
743 Shamokin	Nick Moorman	8-10-08	Negro	8 yrs	34	Miner	Premature explosion	Hands and face burned.
744 Berwind No. 2	Joe Harldog	8-10-08	Hungari'n	2 yrs	35	Shot Firer	Explosion of powder	Ankle crushed.
745 Imo	Jno. Collier	8-11-08	Hungari'n	Unk'n	20	Laborer	Fall of slate	Leg fractured.
746 Tidewater	Turner Summets	8-12-08	Negro	2 yrs	23	Driver	Mine cars	Shoulders bruised.
747 McDowell No. 1	Cal Graves	8-14-08	Negro	7 yrs	40	Miner	Fall of slate	Head, neck, face & sh'ld's brns'd
748 Bottom Creek	Alex Yencavitch	8-14-08	Slavish	6 yrs	29	Miner	Fall of slate	Arm fractured, hip bruised.
749 Berwind No. 3	Chas. Sparks	8-15-08	American	1 yr	22	Brakeman	Mine cars	Hands and face burned.
750 Big Sandy	Fayette Smith	8-15-08	American	Unk'n	36	Miner	Blown out shot	Broken ribs, internal injuries.
751 Empire	Theodore Booker	8-17-08	Rouman'n	8 mos	25	Miner	Mine cars (outside)	Leg injured.
752 Dry Branch	Fred Duncan	8-17-08	American	1 yr	46	Driver	Mine cars	Ankle mashed.
753 Jack	Pat Sullivan	8-19-08	American	5 yrs	46	Miner	Fall of slate	Head bruised.
754 Blackstone No. 1	James Altzer	8-19-08	German	Unk'n	40	Miner	Fall of coal	Arm cut.
755 Pulaski	Peter Bone	8-22-08	Italian	Unk'n	30	Miner	Fall of slate	Arm bruised.
756 King	Robert Alexander	8-22-08	Negro	5 yrs	22	Driver	Fall of slate	

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Occupation.	Nature of Accident.	Injury Sustained.
	McDowell County—	Con't.						
757	Pulaski	Joe Laurace	8-22-08	Italian	Unk'n	40 Miner	Fall of slate	Leg fractured.
758	Shawnee	Jas. Granotto	8-24-08	Italian	Unk'n	23 Driver	Mine cars	Leg and ankle fractured, hand bruised.
759	Empire	Spencer Watkins	8-25-08	American	5 yrs	23 Miner	Mine cars	Collar bone fractured.
760	Mohawk	Thomas Grady	8-25-08	American	4 yrs	26 Miner	Fall of coal	Leg broken.
761	J. B. B. No. 1	W. A. Whitlock	8-26-08	American	20 yrs	48 Miner	Fall of slate	Leg fractured.
762	Berwind No. 11	John Ralldor	8-26-08	Hungari'n	2 yrs	42 Miner	Mine cars	Leg bruised, finger broken.
763	Superior No. 3	Dennis Rose	8-31-08	American	1 day	20 Brakeman	Electric Motor	Fingers mashed.
764	Empire	Frank Johnson	9-1-08	Negro	20 yrs	34 Miner	Fall of coal	Right & left collar bones fract'd
765	Pulaski	George Cassell	9-1-08	American	18 mos.	18 Brakeman	Mine cars	Foot injured.
766	Bottom Creek	H. M. Bratcher	9-2-08	Negro	18 mos.	27 Miner	Fall of slate	Finger mashed, necessitating amputation.
767	Elk Ridge	James Morris	9-3-08	Negro	2 mos.	23 Miner	Mine cars	Arm fractured.
768	U. S. No. 2	Hardy Graham	9-3-08	American	1 yr	28 Miner	Fall of coal	Leg broken.
769	Empire	Andrew Smith	9-8-08	Negro	7 yrs	25 Miner	Fall of slate	Foot mashed.
770	Empire	Robt. Watkins	9-8-08	Negro	6 yrs	22 Miner	Fall of slate	Foot mashed.
771	Superior No. 3	A. B. Canterbury	9-9-08	American	3 yrs	27 Brakeman	Mine cars	Leg broken.
772	U. S. No. 7	Thomas Kellar	9-9-08	Negro	1 yr	35 Miner	Fall of slate	Arm broken.
773	Houston No. 1	James Smith	9-9-08	Negro	2 wks	22 Miner	Fall of slate	Foot crushed.
774	Tidewater	Pat Gillispie	9-10-08	American	28 yrs	44 Miner	Gas Explosion	Head, arm and ears burned.
775	Tidewater	E. D. Woods	9-10-08	Negro	17 yrs	30 Trackman	Gas Explosion	Head, arm and ears burned.
776	Pulaski	C. W. Mallory	9-12-08	American	2 yr	38 Miner	Fall of coal	Toes mashed.
777	Greenbrier	Fred Gunzner	9-15-08	Slavish	2 yrs	30 Miner	Fall of coal	Chest bruised.
778	King	Taz Brown	9-15-08	Negro	10 yrs	45 Shot Firer	Fall of slate	Hip dislocated.
779	Tidewater	Paschal Alampi	9-16-08	Italian	1 yr	25 Miner	Fall of slate	Foot lacerated.
780	Empire	G. W. Prunty	9-16-08	Negro	20 yrs	30 Miner	Fall of slate	Arm fractured at wrist.
781	King	Geo. Flipper	9-18-08	Negro	2 yrs	23 Miner	Fall of slate	Ankle sprained, hip bruised.
782	Empire	George Cox	9-19-08	Negro	5 mos.	36 Loader	Fall of slate	Ankle fractured.
783	McDowell	Wm. Floyd	9-20-08	Negro	10 yrs	30 Car Dropper	Fell from R. R. car (o. s.)	Leg broken.
784	J. B. B. No. 3	Norman Roberts	9-21-08	American	3 mos.	17 Driver	Fell from mule	Arm broken.
785	Tidewater	Romeo Merkle	9-22-08	Italian	1 yr	33 Miner	Fall of slate	Hip injured.
786	Berwind No. 11	Jeff D. Cartwright	9-24-08	American	1 yr	20 Motorman	Electric motor	Arm dislocated.
787	Peotless	John Maltamas	9-24-08	Italian	4 yrs	20 Miner	Fall of slate	Head cut, shoulders bruised.
788	Bottom Creek	Peter Yelitz	9-25-08	Russian	3 mos.	34 Miner	Fall of coal	Arm and leg fractured, face and back bruised.
789	McDowell No. 2	Joe Mangino	10-1-08	Italian	5 yrs	23 Miner	Fall of coal	Ankle and knee sprained, back injured.

790	Empire	Mike Monitor	10-1-08	Italian	2 yrs	31	Miner	Fall of slate	Right leg fractured, necessitating amputation.
791	Bottom Creek	Burton Moore	10-1-08	Negro	4 yrs	26	Miner	Caught by slate bar	Finger lacerated.
792	Bottom Creek	Alex Coleman	10-3-08	Negro	6 yrs	33	Miner	Fall of slate	Comp. dislocation of ankle joint.
793	Tidewater	Jerry Clements	10-5-08	Negro	5 yrs	26	Miner	Fall of slate	Comp. fracture of leg.
794	Page	McGuffin Delhort	10-5-08	American	3 yrs	20	Miner	Mine cars	Leg fractured, two toes mashed off right foot.
795	Marytown	John Satterwhite	10-15-08	Negro	5 mos.	23	Miner	Blown out shot	Face and ears burned.
796	Empire	Sonny Drewy	10-20-08	Negro	16 yrs	42	Miner	Fall of coal	Leg fractured.
797	Tidewater	Thomas Giacomo	10-22-08	Italian	Unk'n	25	Statenman	Fall of slate	Leg fractured.
798	U. S. No. 11	Albert Moore	10-24-08	American	3 yrs	22	Driver	Mine cars	Chest injured, back and sides bruised.
799	McDowell	Joe Accions	10-27-08	Italian	2 yrs	22	Miner	Fall of coal	Both bones of right leg broken just above ankle.
800	Roanoke	Josef Forzek	10-29-08	Hungari'n	1 yr	40	Miner	Fall of coal	Shoulder and collar bone fract'd
801	Pulaski	James Liddle	10-30-08	American	2 yrs	15	Switch Boy	Caught between motor and steel rail	Contused wound of left leg.
802	Bottom Creek	Jacob Davis	10-31-08	Negro	Unk'n	30	Driver	Mine cars	Laceration of ear and chest, side bruised.
803	Grapevine	Frank Pinkosh	11-1-08	Polish	2 yrs	35	Miner	Fall of coal	Crushed through hips and back.
804	Keystone	Roy Harvey	11-1-08	Negro	3 yrs	26	Miner	Fall of coal	Collor bone fractured.
805	Houston No. 1	John Gunner	11-1-08	Slavish	9 yrs	39	Miner	Mine cars	Ribs and chest bruised.
806	Pulaski	Preacher Bolden	11-4-08	Negro	4 yrs	19	Brakeman	Mine cars	Foot injured.
807	Elkhorn	John Gorgia	11-4-08	Hungari'n	8 yrs	30	Miner	Fall of coal	Scalp wound.
808	Lynchburg	Wm. Willis	11-4-08	Negro	2 mos	22	Miner	Fall of coal	Leg broken.
809	Della	A. P. Arrington	11-5-08	American	8 yrs	40	Miner	Fall of slate	Fracture of right leg, with contusion of ankle.
810	Keystone	Otenis Fuller	11-6-08	Negro	1 yr	15	Door Boy	Thrown from runa'y car	Lacer'd wound back of right ear.
811	U. S. No. 3	Mike Mosselle	11-7-08	Italian	2 yrs	27	Car dropper	Mine cars (outside)	Both bones in left leg broken above ankle.
812	Berwind No. 2	John Campbell	11-12-08	Negro	11 yrs	43	Shot Firer	Mine cars	Left thigh fractured.
813	Cherokee	J. C. Falls	11-16-08	American	Unk'n	20	Engineer	Struck by ste'm locom'tive	Two ribs broken.
814	Bottom Creek	Charles Lobish	11-18-08	Polish	9 mos.	29	Miner	Mine cars	All toes & ball of left foot crus'd.
815	Imo	Oscar Tillman	11-20-08	Negro	2 yrs	30	Miner	Fall of slate	body bruised.
816	J. B. B. No. 1	Rolland McCoy	11-21-08	American	Unk'n	30	Miner	Fall of slate	Injury to spine.
817	J. B. B. No. 1	Wm. Reynolds	11-24-08	American	2 yrs	33	Miner	Fall of slate	Left ankle broken.
818	Berwind No. 3	Martin Pruitt	11-24-08	American	6 mos.	30	Loader	Mine cars	Arm broken.
819	Berwind No. 3	James A. Stevenson	11-25-08	American	1 yr	19	Brakeman	Mine cars (outside)	Collar bone broken.
820	McDowell No. 2	Harry Pigrum	11-28-08	Negro	8 mos.	15	Door Boy	Mine cars	Ends of second and third fingers off left hand.
821	Jed	Wm. Foster	12-1-08	Negro	1 yr	30	Miner	Mine cars	Right ear cut, head and right shoulder bruised.
822	Bottom Creek	W. W. Kinney	12-1-08	American	10 yrs	30	Miner	Fall of slate	Back broken, skull fractured.
823	King	James Parth	12-3-08	Negro	Unk'n	35	Laborer	Mine cars	Sprained foot.
824	King	James Baroni	12-3-08	Italian	Unk'n	33	Laborer	Gas explosion	
825	King	Mike Pels	12-3-08	Italian	Unk'n	35	Laborer	Gas explosion	
826	King	Tom Younger	12-3-08	Negro	Unk'n	18	Laborer	Gas explosion	
827	Jed	Jack Dotson	12-5-08	Negro	Unk'n	19	Laborer	Mine cars	Right leg broken.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
McDowell County.									
829	Elk Ridge.	Con'tl.	12-7-08	Negro	10 yrs.	35	Laborer.	Flying slate.	Face cut and chest bruised.
829	Jed	Willard R. Talbott	12-7-08	American.	Unk'n	32	Mechanic	Fell from thimble (outside)	Spinal column injured at base of brain.
830	Empire	Lewis Gary	12-8-08	Negro	2 yrs.	17	Driver	Fall of slate	Foot injured.
831	Berwind No. 3.	James R. Oliver	12-10-08	American.	6 mos.	18	Brakeman	Mine cars	Right ankle sprained, body bruised.
832	Peerless.	Fletcher Gibson	12-10-08	Negro	3 wks.	18	Laborer.	Mine cars	Arm broken.
833	Pando.	W. L. Harless	12-12-08	American	5 yrs.	40	Trackman	Mine cars	Foot crushed.
834	Elk Ridge.	Pete Parsons	12-14-08	Italian	2 yrs.	35	Laborer	Fell into barney hole	Leg broken.
835	Va. & Poca No. 5	Elios Gumbach	12-14-08	Hungarian	Unk'n	26	Miner	Premature explosion	Scalp wounds.
836	Empire	Sam Doffish	12-14-08	Romanian	3 yrs.	22	Miner	Fall of coal	Collar bone, jaw bone in two places and two ribs fractured.
837	Tidewater	Turner Summers	12-15-08	Negro	3 yrs.	24	Slaterman	Fall of coal	Leg injured.
838	Keystone	Oscar Hanagan	12-16-08	Dutch	18 mos.	28	Miner	Fall of slate	One leg fractured, other one cut.
839	U. S. No. 11	Kelley Hampton	12-16-08	American.	5 yrs.	23	Miner	Premature explosion	Left elbow, wrist and hand bruised and cut.
840	Empire	Hamp Wayne	12-17-08	American	10 yrs.	30	Miner	Fall of slate	Left hip dislocated.
841	Cavy Crockett.	E. W. Fowler	12-18-08	American	Unk'n	35	Miner	Fall of coal	Both hands injured.
842	Bottom-Creek	Elizah Hileulch	12-19-08	Russian	1 yr.	25	Laborer.	Fall of slate.	Sprained ankle, bruise of right leg and left knee.
843	Lick Branch	Jerry Parris	12-29-08	Negro	6 yrs.	25	Miner.	Explosion of dust	Face and hands burned.
844	Lick Branch.	J. D. Hairston	12-29-08	Negro	2 yrs.	23	Laborer.	Explosion of dust	Face and hands burned.
845	Berwind No. 1.	C. Mitchell (Hughes)	12-29-08	Negro	6 mos.	20	Brakeman	Mine cars	Right arm broken, hand lacerated.
846	Black Wolf	Irwin B. Wolf	12-31-08	American.	6 mos.	24	Mch. Helper.	Fall of slate	Mashed through hips.
847	U. S. No. 5	Edward Stead	1-1-09	American.	2 yrs.	15	Laborer	Mine cars (outside)	Leg cut.
848	Arlington	Guldo Pietro	1-2-09	Italian	10 yrs.	30	Miner	Fall of coal	Both bones arm fractured, laceration and contusion of hand and wrist.
849	Jed.	Jacob S. Henry	1-4-09	American	20 yrs.	30	Foreman.	Electric motor	Body bruised.
850	Monitor	Mose Johnson	1-5-09	Negro	13 mos.	12	Trapper	Mine cars	Arm mashed and lacerated.
851	King	Jno. Satterwhite	1-6-09	Negro	Unk'n	21	Miner	Fall of slate	Hip dislocated.
852	Turkey Gap	N. J. Plaster	1-7-09	American	Unk'n	24	Laborer	Fall of coal (outside)	Hand injured.
853	Bottom Creek	Alex Scopine	1-7-09	German.	8 yrs.	26	Miner	Fall of slate.	Foot injured.
854	U. S. No. 2	Jno. Labosky	1-8-09	Polish	6 mos.	33	Miner	Fall of slate	Leg broken.
855	McDowell	Andrew Patrick	1-9-09	Slavish	5 mos.	30	Trackman	Fall of slate	Right foot mashed.
856	U. S. No. 3	Pasquale Tellar	1-11-09	Austrian.	4 mos.	19	Miner	Fall of slate	Leg broken between ankle & knee.

857	Ashland	Joseph Workman	1-11-00	American	7 yrs	30 Miner	Fall of coal	Leg broken.
858	Lick Branch	Cleve H. Bowers	1-12-00	American	11 yrs	24 Mine Foreman	Explosion of dust	Contusion over abdomen.
859	Berwind No. 3	Robert Stevenson	1-12-00	American	3 wks.	19 Laborer	Mine cars (outside)	Hand injured, end of finger mashed off.
860	King	Thos. Settlers	1-12-00	Negro	1 yr	20 Car Dropper	Mine cars	Right leg crushed off at middle.
861	Greenbrier	W. H. Holland	1-15-00	American	6 yrs	38 Miner	Fall of slate	Mashed through chest and about head.
861a	Lick Branch	Chas. W. Atkinson	1-15-00	American	16 yrs	38 Foreman	Struck by pole	Fracture of left leg.
862	Bottom Creek	H. L. Stoxall	1-15-00	American	1 yr	20 Miner	Fall of slate	Contusion of back, face and hips.
863	Empire	Jno. Sears	1-18-00	Negro	20 yrs	42 Miner	Mine cars	Hip bruised.
864	Pulaski	Lewis Hynes	1-18-00	American	15 days	23 Miner	Fall of slate	Both legs and left arm fract'ed.
865	Turkey Gap	William Waddleton	1-18-00	Negro	Unk'n	23 Miner	Flying coal	Arm fractured.
866	Rosario	David R. Graves	1-19-00	Negro	2 wks.	10 Laborer	Fell off larry (outside)	Comp. fracture of right leg.
867	Berwind No. 3	Cleveland Collins	1-20-00	American	12 mos.	22 Men. Helper	Caught by machine jack	Finger off left hand.
868	Turkey Gap	Sam Nauchuck	1-21-00	Russian	1 yr	22 Miner	Mine cars	Ankle sprained.
869	Berwind No. 1	Mike Kitten	1-21-00	Rouman 'n	1 yr	24 Shot Firer	Explosion of shot	Hands burned.
870	Crozer No. 1	Frank Keala	1-23-00	Slavish	Unk'n	20 Laborer	Fall of slate	Left leg broken.
871	Empire	Henry Thaxton	1-25-00	Negro	2 yrs	22 Miner	Fall of slate	Ankle sprained, head cut.
872	Empire	Geo. Reed	1-25-00	Negro	13 yrs	31 Miner	Fall of slate	Four scalp wounds.
873	North Dixon	D. C. Boone	1-27-00	American	Unk'n	25 Blacksmith	Injured by drill press (outside)	Arm broken.
874	Empire	Ham Wayne	1-28-00	American	10 yrs	30 Miner	Fall of slate	Leg fractured, ankle lacerated.
875	Houston No. 1	Daniel McNeal	1-30-00	Negro	2 yrs	23 Laborer	Fall of slate	Skull fractured over eye.
876	Monitor	Wm. E. Reynolds	1-30-00	American	14 yrs	37 Mine Foreman	Caught by steam locomotive (outside)	Leg broken, scalp wound, bruised thigh.
877	Shamokin	Chas. Potara	2- 1-00	Italian	2 yrs	21 Miner	Fall of slate	Leg fractured, scalp wound.
878	U. S. No. 2	Chas. Bradford	2- 2-00	Negro	1 yr	35 Miner	Fall of slate	Thumb mashed, necessitating amputation.
879	Arlington	James Harris	2- 2-00	American	15 days	21 Miner	Fall of coal	Contusion of right knee, leg fractured.
880	Lynchburg	John Perry	2- 3-00	Italian	2 yrs	42 Miner	Fall of coal	Shoulder and side injured.
881	King	J. H. Boyd	2- 3-00	Negro	8 mos.	30 Miner	Fall of coal	Contusion of back, left shoulder and right knee.
882	Berwind No. 1	Tonia Fisca	2- 4-00	Italian	3 yrs	35 Loader	Mine cars	Leg bruised, flesh torn.
883	Superior No. 1	Richard C. Tackett	2- 5-00	American	6 yrs	24 Driver	Mine cars	Squeezed through chest.
884	Bottom Creek	Wm. Martin	2- 5-00	Negro	7 yrs	20 Miner	Fall of slate	Bruised back, lacerated fingers.
885	U. S. No. 7	John Jones	2-10-00	American	6 wks.	26 Driver	Mine cars	Foot crushed.
886	Pulaski	Geo. H. Morehead	2-10-00	American	6 mos.	21 Laborer	Injured by steam (outs 'e)	Body scalded.
887	Powhatan	Mart Price	2-11-00	American	5 yrs	26 Miner	Fall of slate	Hip bruised.
888	Middle States No. 11	Salvator Spodina	2-13-00	Italian	Unk'n	33 Loader	Fall of coal	Leg broken, back injured.
889	Elkhorn	J. W. Mitchell	2-13-00	Negro	15 yrs	35 Miner	Fall of coal	Right leg mashed, scalp wound.
890	Page	Richard Lipscomb	2-15-00	Negro	Unk'n	22 Miner	Fall of coal	Both bones of right arm fractur- ed.
891	Berwind No. 1	Tony Solo	2-16-00	Italian	3 yrs	23 Laborer	Electric motor	Body bruised.
892	Powhatan	Mathis Skabos	2-16-00	Greek	5 mos.	23 Miner	Fall of coal	Leg broken.
893	Empire	Abe Hill	2-17-00	Negro	2 mos.	22 Miner	Fall of slate	Face and ear cut.
894	Big Sandy	Thomas Hardy	2-17-00	American	10 mos.	22 Miner	Fall of slate	Back and hips bruised.
895	Page	Theodore Fisca	2-17-00	Hungari 'n	2 yrs	28 Miner	Fall of coal	Arm and leg broken.
896	Stone Banks	Thomas Dickinson	2-19-00	Negro	15 yrs	40 Miner	Fall of slate	Both legs fractured.
897	North Dixon	William Foy	2-20-00	Negro	2 yrs	23 Driver	Mine cars	Squeezed through hips.

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
McDowell County -									
898	North Dixon	Con'tl.	2-20-09	American.	2 yrs.	25	Mch. Helper	Electric motor	Foot broken.
899	Unkey Gap	George H. Perry	2-23-09	Negro	23 yrs.	33	Miner	Fall of coal	Mashed foot.
900	Ranoke	Geo. Hancock	2-23-09	Hungari'n	Unk'n	35	Miner	Fall of coal	Contusion of shoulders, back and both sides.
901	Berwind No. 3	Mike Grigas	2-27-09	Rouman'n	3 yrs.	27	Loader	Fall of slate	Back and hip bruised, shoulder dislocated.
902	Page No. 1	W. B. Martin	3-2-09	American.	6 mos.	24	Miner	Fall of coal	Leg fractured.
903	Va. & Pocah No. 5	George Proski	3-3-09	Austrian	4 yrs.	48	Miner	Mine cars.	Hip dislocated and bruised.
904	Crozer No. 2	John Cardwell	3-6-09	American.	2 yrs.	23	Driver	Mine cars.	Left arm fractured above wrist.
905	Pulaski No. 1	Sam Strain	3-10-09	Negro	6 yrs.	24	Driver	Fall of slate	Back broken.
906	Maher	Edward Patrick	3-11-09	American.	2 yrs.	28	Miner	Fall of slate	Contusion of back and hip.
907	South Side	Frank Moscoe	3-12-09	Italian	16 mos.	18	Laborer	Fall of slate	Leg broken.
908	Welch	Merew Francisco	3-12-09	Italian	Unk'n	32	Miner	Fall of slate	Nose broken.
909	Pulaski No. 2	W. L. Carter	3-17-09	American	7 yrs.	31	Driver	Mine cars	Foot mashed.
910	Indian Ridge	Joe Magey	3-19-09	Hungari'n	Unk'n	25	Miner	Fall of slate	Left leg broken.
911	U. S. No. 5	Tony Fisher	3-19-09	Latvich	18 mos.	23	Mch. Runner	Fall of coal	Leg broken, head cut.
912	Berwind No. 1	Henry T. Price	3-20-09	Negro	6 mos.	16	Trapper	Electric motor	Leg broken, necessitating amputation.
913	Elk Ridge	Sam Newton	3-20-09	Negro	10 yrs.	40	Miner	Mine cars.	Legs bruised.
914	Shamokin	Rugiere Borosari	3-23-09	Italian	Unk'n	22	Miner	Fall of slate	Left leg fractured.
915	Black Wolf	W. Peyton White	3-24-09	American	3 yrs.	36	Miner	Electric motor	Back and hips bruised.
916	Empire	W. F. Saunders	3-25-09	Negro	5 yrs.	48	Miner	Fall of slate	Spine injured.
917	King	Frank Harden	3-26-09	Negro	Unk'n	23	Laborer	Fall of slate	Back injured.
918	King	Thom. Higginbotham	3-26-09	Negro	Unk'n	25	Miner	Fall of slate	Back injured.
919	Pulaski No. 2	Jas. Canady	3-30-09	Negro	1 yr.	26	Miner	Fall of slate	Contusion of spine.
920	Crozer No. 2	Antonio Mart	4-2-09	Hungari'n	1 yr.	24	Miner	Fall of slate	Face cut.
921	South Side	Henry Hardnett	4-3-09	Negro	12 days	32	Cager	Jumped from moving cage	Shoulder broken, internal injuries.
922	Houston No. 1	Oscar Peters	4-5-09	Negro	Unk'n	15	Switch Boy	Mine cars	Arm broken.
923	Eureka	Miller Walker	4-5-09	Negro	4 mos.	27	Miner	Fall of coal	Right leg broken above ankle.
924	McDowell	Louis Gsoolz	4-5-09	Hungari'n	8 mos.	37	Miner	Fall of coal	Cuts on face & chest, body br's'd.
925	Pulaski No. 2	Joe Sivoosh	4-7-09	Hungari'n	2 yrs.	31	Slatenman	Fall of slate	Left thigh fractured.
926	Indian Ridge	Jess Hancock	4-8-09	Negro	2 yrs.	32	Driver	Fell off coke oven ladder (outside)	Ankle broken.
927	Upland	D. Gunaway	4-12-09	Negro	12 yrs.	30	Miner	Fall of slate	Left thigh fractured.
928	Elk Ridge	Nick Glovis	4-14-09	Greek	4 yrs.	35	Laborer	Fell off moving car	Contusion of the brain.
929	U. S. No. 11	E. R. Burles (B'r'ghs)	4-10-09	American.	15 yrs.	30	Miner	Premature explosion.	Face and hands burned.

930 Middle States No. 11.	Martin Pigrash.	4-17-09	Hungari'n	2 yrs.	35 Miner	Mine cars.	Hips bruised.
931 Crozer No. 11.	Andrew Cortenue.	4-19-09	Russian.	1 yr.	30 Miner	Fall of coal.	Foot crushed.
932 Delta.	William Hanley.	4-20-09	Negro	1 yr.	16 Trapper	Mine cars	Leg mashed between ankle and knee.
933 Lynchburg	Hellas Lee.	4-22-09	Greek	2 yrs.	36 Miner	Fall of coal	Leg and hip injured.
934 Powhatan	Elmer Hudson.	4-23-09	Negro	6 mos.	25 Driver	Mine cars.	Foot bruised.
935 U. S. No. 6	Mike Krozich.	4-24-09	Hungari'n	1 yr.	45 Brakeman	Electric motor	Foot cut in half and mashed.
936 Eureka	Pat Lowe	4-26-09	American.	2 yrs.	25 Miner	Fall of coal	Left wrist broken, left ankle sprained.
937 Peerless.	Link Marshall.	4-28-09	Negro	8 mos.	18 Stelman	Fall of slate	Back and foot bruised.
938 Keystone.	Fletcher Bolden.	4-28-09	Negro	6 yrs.	23 Miner	Fall of slate	Spine injured.
939 Blackwolf	Judge Carter	4-30-09	Negro	Unk'n	26 Driver	Fall of slate	Leg broken.
940 Central Pocanontas.	George W. Day	4-30-09	English	20 yrs.	47 Miner	Fall of coal and slate	Ankle sprained.
941 Peerless.	Mose Spicer.	5- 3-09	Negro	14 yrs.	50 Miner	Fall of coal	Two ribs fractured, eye injured, left leg fractured.
942 Page.	F. K. Tarler.	5- 3-09	American.	Unk'n	24 Clk Boss	Mine cars (outside)	Foot mashed, toe off.
943 Piney	Lambert Jones	5- 4-09	Negro	3 yrs.	21 Miner	Fall of coal and slate	Right leg fractured above ankle.
944 U. S. No. 4	Matthew Paul	5- 5-09	Slavish	Unk'n	19 Laborer	Electric motor	Leg broken.
945 Tidewater	Giovanni Devoll	5- 6-09	Italian	Unk'n	25 Miner	Fall of slate	Left leg fractured, injured internally.
946 King	Robert Davis	5- 9-09	Negro	Unk'n	40 Miner	Flying coal	Lacerated wound of brow and scalp, shoulder bruised, Contused and lacerated wound of left foot.
947 Empire	George Sofany.	5-10-09	Rouman'n	2 yrs.	24 Miner	Fall of slate	Body bruised.
948 Helena.	Geo. Ratcliff	5-10-09	American	9 yrs.	19 Miner	Fall of slate	Left leg broken, body bruised.
949 Va. Poca No. 5.	J. P. Guffin	5-11-09	American	Unk'n	33 Black Smith	Mine cars (outside)	Contused shoulder, ruptured lung.
950 King	S. S. Garland	5-15-09	Negro	Unk'n	45 Miner	Fall of coal	Hip dislocated.
951 Circus No. 1	John Franklin.	5-17-09	Negro	5 yrs.	25 Laborer	Fall of slate	Leg injured.
952 Bottom Creek	Louis Abruzzi.	5-18-09	Italian	Unk'n	20 Miner	Fall of slate	Leg, ankle and foot bruised.
953 Indian Ridge	Munsey Turner	5-19-09	Negro	2 yrs.	22 Miner	Fall of coal	Leg fractured above ankle.
954 Gilliam	James O. Bond	5-21-09	American.	Unk'n	30 Miner	Fall of coal	Thigh fractured and bruised.
955 Elk Ridge	Sander Price	5-22-09	Negro	10 yrs.	30 Miner	Fall of coal	Scalp wound, leg fractured.
956 North Fork	Robert Wilson.	5-27-09	American.	3 yrs.	23 Miner	Fall of coal	Face and hands injured.
957 Middle States No. 11	Douglas Martin	5-28-09	American.	7 mos.	13 Miner	Premature explosion	Cut on leg.
958 Peerless.	Wm. Turner	5-29-09	Negro	2 mos.	14 Compler	Mine cars (outside)	Arm cut.
959 Greenbrier	Lloyd Crawford	5-31-09	American	3 yrs.	15 Trapper	Mine cars	Foot bruised.
960 McDowell	B. Fitz	5-31-09	Negro	5 mos.	21 Driver	Mine cars	Bruise and laceration of foot.
962 North Side	P. Tony	6- 2-09	Italian	6 mos.	22 Miner	Gas explosion	Face and hands burned.
963 Ashland	R. E. Jackson.	6- 4-09	Negro	2 yrs.	32 Mach. Helper	Electric motor	Foot mashed.
964 Page No. 2	Gordon Moss.	6- 4-09	Negro	4 yrs.	18 Laborer	Fall of slate	Leg and arm fractured.
965 South Side	Nick Houston	6- 5-09	Negro	4 yrs.	62 Miner	Fall of slate	Hip fractured.
966 Empire	August Whitefield	6-10-09	German.	Unk'n	Loader	Fall of slate	Right foot mashed, necessitating amputation at ankle.
967 U. S. No. 7	Joe Femuln	6-11-09	Italian	1 yr.	21 Miner	Fall of slate	Right ankle broken.
968 King	Mike Gressh.	6-14-09	Hungari'n	4 mos.	26 Miner	Fall of slate	Contused thigh.
969	Geo. Stuart.	6-14-09	Negro	Unk'n	23 Laborer.	Caught between elevator and casing (outside)	Comp. fracture of thigh.
969 Turkey Gap	Carlos Younce	6-15-09	American.	2 mos.	16 Spragger	Mine cars	
970 Twin Branch	Fred H. Dawn	6-15-09	American.	3 yrs.	28 Miner	Fall of slate	

NON-FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30TH, 1909.

No.	NAME OF MINE.	Name of Person Injured.	Date of Accident.	Nation-ality.	Length of Experience	Age.	Occupation.	Nature of Accident.	Injury Sustained.
<i>McDowell County.</i>									
971	Middle States—	Con't.	6-16-09	Italian	Unk'n	25	Miner	Premature explosion.	Contused wound on face & hand.
972	Lick Branch.	Sully Vincenzo.	6-17-09	Negro	5 yrs.	45	Miner	Fall of slate.	Back sprained.
973	U. S. No. 4	George Ross	6-17-09	Negro	3 yrs.	27	Driver	Mine cars	Leg broken just above ankle.
974	Keystone.	William H. Franklin	6-17-09	Negro	1 mo.	14	Door boy	Mine cars.	Left hand crushed.
975	Cherokee	Steve Coleman	6-18-09	Hungari'n	Unk'n	38	Miner	Blown out shot.	Face, neck, shoulders, hands and arms burned.
976	Phney	John Morrison	6-21-09	Negro	2 mos.	25	Miner	Fall of slate.	Laceration of foot, heel crushed.
977	Page	Wm. Carnish	6-22-09	Russian	Unk'n	35	Miner	Fall of slate	Back bruised and sprained.
978	Page	Chas. Robertson	6-25-09	Negro	1 yr.	25	Miner	Fall of slate	Hip dislocated, leg fractured above ankle.
979	Elk Ridge	Geo. Watson	6-23-09	Negro	2 yrs.	22	Driver	Mine cars	Back and neck strained.
980	North Side Dix.	Houston Lynch	6-24-09	Negro	Unk'n	30	Laborer	Gas Explosion	Face and hands burned.
981	North Side Dix.	Poca Jas. Ship	6-24-09	Negro	Unk'n	28	Laborer	Gas Explosion	Face and hands burned.
982	North Side Dix.	Belford Finney	6-24-09	Negro	Unk'n	28	Laborer	Gas Explosion	Face and hands burned.
983	Peerless	Tera Payne	6-25-09	Negro	14 yrs.	34	Statenman	Fall of slate	Left hand cut off.
984	Gilliam	Joseph Donelus	6-28-09	Hungari'n	2 yrs.	35	Miner	Mine cars	Hips bruised, internal injuries.
985	Berwind No. 1	Henry T. Logsdon	6-30-09	American	6 yrs.	21	Brakeman	Electric motor	Foot mashed, necessitating amputation.
986	Arlington	Racco Follari	6-30-09	Italian	Unk'n	25	Miner	Fall of slate	Fracture of three ribs, back and hips injured.
<i>Logan County.</i>									
987	Wilson	C. Smith	7-7-08	American	Unk'n		Miner	Flying coal	Skull fractured.
988	U. S. C. & O. No. 2	William Jones	7-8-08	Negro	1 yr.	28	Driver	Fall of slate	Leg broken above ankle.
989	U. S. C. & O. No. 2	John Novak	7-16-08	Hungari'n	Unk'n	43	Loader	Blast of powder	Head cut, face, arm and shoulder burned.
990	Monitor.	George Edwards	7-16-08	English	2 yrs.	23	Spragger	Caught by machine truck	Toe squeezed.
991	No. 2	Chas. Billock	8-3-08	German	Unk'n	18	Loader	Fall of coal	Leg broken just above ankle.
992	Logan	E. R. Elswick	9-10-08	American	3 yrs.	30	Miner	Fall of slate	Leg fractured.
993	The Gay	Jubal Lester	10-2-08	American	3 yrs.	23	Miner	Blown out shot.	Eye injured, hand & face burn'd.
994	U. S. C. & O. No. 1	Lon Gore	10-19-08	American	Unk'n	22	Driver	Mine cars	Wrist dislocated, arm broken.
995	Johnson	Lane Hale	12-5-08	American	2 yrs.	28	Miner	Mine cars	Foot sprained.
996	Johnson	Ham McDonald	12-5-08	American	1 yr.	30	Miner	Mine cars	Foot sprained.
997	Johnson	George Neece	12-5-08	American	2 yrs.	30	Miner	Mine cars	Foot sprained.
998	Johnson	Louie Connall	2-1-09	Italian	5 yrs.	23	Nach. Runner	Mining machinery	Two fingers lacerated, necessitating amputation.
999	U. S. C. & O. No. 2	Greyaonie Treacup	2-6-09	Italian	Unk'n	17	Trapper	Mine cars	Mashed through chest, injured internally.

1000] Ethel Gay	Philip Doss	4- 5-00] American	6 mos. Unk'n	23 Loader	Mine cars	End of finger crushed, head and back bruised, hips squeezed.
1001] Ethel No. 2	Robert Johnson	4-19-00] Negro	3 yrs. Unk'n	18 Miner	Fall of slate	
1002] Monitor	Krauszyn Zukonski	5- 1-00] Polish		45 Miner	Mine cars	
<i>Mingo County.</i>						
1003] Chattaroy	James Miller	7-11-08] American	2 yrs. 5 yrs.	30 Hach. helper	Fall of coal	Back injured.
1004] Wutifrede	William Carter	7-13-08] American		30 Laborer	Fall of slate	Both bones of right leg frac- tured.
1005] Grapevine	Marcus L. Millem	7-14-08] American	11 yrs. 7 mos.	21 Miner	Mine cars	Internal injuries.
1006] Red Jacket	Nicholas Patrovitch	7-23-08] Hungarian	28 Laborer	26 Driver	Mine cars (outside)	Leg bruised.
1007] Rutherford	John Williamson	7-24-08] American	5 yrs. Unk'n	28 Driver	Mine cars	Ear injured.
1008] Thacker No. 3	Geo. Washem	7-28-08] Hungarian	23 Miner	28 Miner	Fell on pick	Chest injured.
1009] Thacker No. 3	Epp Vance	7-29-08] American	4 yrs. 18 mos.	23 Driver	Fall of slate	Leg broken.
1010] Rutherford	Rock Bergantine	8- 8-08] Italian		26 Miner	Runaway car on incline (outside)	Collar bone broken, legs bruised.
1011] Rutherford	Tony Conty	8- 8-08] Italian	2 yrs. 4 mos.	26 Miner	Mine car (outside)	Cut and bruised about face.
1012] Thacker No. 2	Carrel Paci	9- 1-08] Italian	14 mos. 4 mos.	23 Loader	Fall of slate	Leg broken.
1013] Thacker No. 3	Vest Smith	9-10-08] Negro	Unk'n	26 Driver	Mine cars	Knee injured, body bruised.
1014] Lynn	George Hall	10- 7-08] American	Unk'n	Loader	Explosion of powder	Face and body burned.
1015] Lynn	Wm. Ratcliff	10- 7-08] American	10 yrs. 3 yrs.	26 Mach. helper	Explosion of powder	Face and body burned.
1016] Glen Alum No. 2	Charley Yost	10- 7-08] American	3 yrs. 1 yr.	34 Miner	Fall of slate	Leg broken.
1017] Thacker No. 10	Nick Pan	10-12-08] Italian	4 yrs. 29	40 Shot firer	Premature explosion	Foot crushed.
1018] Logan	Green Hensley	10-30-08] American	1 yr.	29 Miner	Fall of slate	Head and legs mashed.
1019] Logan	Eustace Lawson	11-12-08] American	10 mos. 15 mos.	49 Laborer	Mine car (outside)	Back injured.
1020] Red Jacket	Andrew Katona	11-16-08] Hungarian	1 yr.	33 Miner	Premature explosion	Scalp wound.
1021] Thacker No. 3	Mike Cornelius	12-26-08] Russian	1 yr.	38 Miner	Fall of coal	Face and right hand burned.
1022] Thacker No. 3	Joseph Marty	12-18-08] Hungarian	2 yrs. 30 yrs.	42 Loader	Fall of coal	Leg broken in two places.
1023] Lynn	Frank Garbac	3- 2-09] Hungarian		32 Miner	Struck by ratchet lever, (outside)	Knee crushed.
1024] War Eagle	William Abbs	3-11-09] English		62 Engineer	Premature explosion	Scalp wound.
1025] Thacker No. 3	Biagio Marcio	3-20-09] Italian	5 yrs. 14 mos.	40 Miner	Premature explosion	Wound on head.
1026] Thacker No. 2	Rudolph Komey	3-23-09] American	19 yrs. 14 yrs.	18 Brakeman	Electric motor	Foot mashed.
1027] Williamson No. 3	Thomas Hammond	4- 5-00] Negro	4 yrs. 6 mos.	39 Mach. helper	Fall of slate	Hip bruised, back sprained.
1028] Thacker No. 3	Bird Hayes	4-19-00] Negro		16 Trapper	Mine cars	Foot mashed, two toes ampu- tated.
1029] Red Jacket	Robert Smith	4-20-00] Negro	2 yrs. 3 yrs.	25 Driver	Mine cars	Shoulders, chest & back bruised.
1030] Chattaroy	Frank Banfield	5-13-00] American	2 yrs. 3 yrs.	22 Driver	Fall of slate	Arms, breast & legs bruised.
1031] Logan	William Baldwin	6- 7-00] American	15 yrs.	35 Miner	Fall of slate	Mashed through back & hips.
1032] Howard	Thomas Blair	6-11-00] American			Fall of coal	Spine injured.

FATAL ACCIDENTS

For the year ending June 30th, 1909.

BROOKE COUNTY.

February 23, 1909.—Peter Konovitch, 21, Russian, Beech Bottom Mine. Was electrocuted by accidentally coming in contact with a charged wire.

June 21, 1909.—Andy Saladi, 40, Lewis Mine No. 1. While placing coal on his car, came in contact with trolley wire and was electrocuted.

MARION COUNTY.

July 30, 1908.—Meliam Rubish, 24, Polish, Monongah Mine No. 8. He disobeyed the mine discipline to the extent of refusing to timber his place after having been told by the shot-firer. A fall of slate, weighing one and one-half tons fell on him, causing instant death.

August 8, 1908.—John Harlo, 45, Slavish, Pennois Mine. While watching two other men work, he was suddenly caught by a fall of coal and slate and killed.

August 8, 1908.—Paul Karnful, 50, Slavish, Pennois Mine. Was killed by a sudden fall of slate, while watching two other men work.

August 11, 1908.—Augustine Desista, 19, Italian, Highland Mine. He persisted in digging at a stump, against the advice of his partner, when it suddenly turned over, bringing the roof coal and draw slate with it, caught Desista, killing him instantly.

August 17, 1908.—Fliga Cirtic, 18, Austrian, Chiefton Mine. He and his partner had just finished loading a car, when about twelve inches of draw slate fell, crushing Cirtic to the extent that he died soon after the accident.

September 10, 1908.—Feodor Rason, 37, Italian. Chatham No. 1 Mine. This person was mining coal when a pot of coal and slate fell, without warning, catching him, resulting in his death.

September 10, 1908.—Benniman Rason, 35, Italian. Chatham No. 1 Mine. Was mining coal, when coal and slate suddenly fell, causing his death.

September 21, 1908.—Toney Matzot, 18, Italian. Shaft Mine. The deceased started to go from his place or No. 8 pillar to No. 9 where the other men were working, he got near the small stump that had been left on No. 9, when suddenly the stump, roof coal and soft slate fell on him, causing instant death.

October 22, 1908.—Vito Pinchto, 34, Italian, New England Mine. While slatemens were trying to secure the top, it fell, catching Pinchto causing his death. One man was non-fatally injured in this accident.

December 9, 1908.—John Matusky, 28, Slavish, Chiefton Mine. He was instructed by the mine boss not to mine his stump all the way through in the bottom, and when found under the fall it was believed that he, Matusky, had mined off the part of the stump that he had been told to leave for protection. Had the instructions been carried out the accident need not have happened.

March 30, 1909.—Francesco Parisi, 31, Italian, Kingmont Mine. This man was breaking a room off on second butt air course. He fired a shot

and went up on the fallen coal immediately afterward in the smoke and was caught by a fall of slate.

April 11, 1909.—Sam Meallage, 24, Austrian, Chatham No. 1 Mine. This man was cleaning slate in room on Eighth left heading. A piece of slate suddenly fell, catching him. He was taken to the Miners' Hospital at Fairmont where he died the next day.

April 15, 1909.—Charles McDonald, Air Shaft No. 3. He was coming out of Air Shaft when natural gas exploded killing him.

April 15, 1909.—Robert Maynard, Air Shaft No. 3. Was killed by an explosion of natural gas, when coming out of air shaft.

April 15, 1909.—Lonnie Cook, Air Shaft No. 3. When coming out of Air Shaft was killed by an explosion of natural gas.

April 29, 1909.—J. C. Holcomb, 58, American, Chatham No. 1 Mine. He and his fellow workmen were working on pillar stumps. They had tested the roof in their working place, and were unable to pull down all of the roof slate. Shortly afterward their trip empties came in, they went out and were pushing the car over the switch, when slate fell without any warning, catching Holcomb. Zeekus escaped without an injury.

May 27, 1909.—Tom Kottich, 55, Austrian, Chatham No. 1 Mine. He had loaded two cars, and was working alone. The driver on that heading states that he was about 40 feet from Kottich when the fall came without any warning, which resulted in instant death.

June 10, 1909.—Andrew Hanlon, 29, Irish, Federal Mine. This man went down in motor chute with horse in dark, he was on his way to stable at 4:20 P. M. There was a red light on the rear of trip in front of him and red light on front of trip back of him. He was told to get out of the way of the electric motor, but failed to do so. Was injured June 10, 1909, and died June 22, 1909.

June 10, 1909.—David Scott Stewart, 27, American, Parker Run Mine. He fired a butt shot in an entry, he then pushed the mining car up to the breast of coal; on discovering the shot had hung, he stepped between the breast of coal and the mine car and began to dig at said butt shot which fell suddenly and squeezed him against the mine car, resulting in his death on June 12, 1909.

June 24, 1909.—Ross Panetta, 26, Italian, Highland Mine. He was working pick work on 1st South Heading at top of heading and had turned a room off the heading to drive it through the barrier pillar, and was in 16 feet. He had set his tools up against the face of his place and was coming out of it, when in the neck of room, 3 feet from line of

MARSHALL COUNTY.

heading, a large piece of slate fell on him, killing him instantly.

September 30, 1908.—Robert Williams, 19, American. Hitchman Mine. He was working with his brother in a room, the brother left the room to help another brother on a mining machine, and after they had cut one place he returned to the room and found this young man lying under the stone dead.

HARRISON COUNTY.

July 20, 1908.—Steve Miller, 19, Austrian, Fulmer No. 1 Mine. This man had just fired a shot and proceeded to load his wagon before he pulled down some loose rock about two and one-half inches thick, which fell on him before he got wagon finished. He died July 31, 1908.

August 8, 1908.—Gibor Isbarig, Hungarian, Viropa Mine. This man worked in left air course off 1st south face; he had been working but a few minutes when the slate fell crushing his head so badly that he died shortly after he was taken out of the mine. Had the victim obeyed rule 17 of the mine rules, a copy of which he had, or had used the intelligence that his more than one year's experience had given him, he would have tested the roof the first thing on entering working place.

August 13, 1908.—Wayne Greynolds, 15, American, Pitcairn Mine. While trying to get out of way of car, it passed over him, killing him instantly.

August 26, 1908.—G. B. Spangler, 38, American, Harold Mine. The supposition is that he ventured back under the head coal for the purpose of removing a prop which was still standing at the back side, when the coal fell, killing him instantly. He was an experienced miner, and this accident was unlooked for.

October 8, 1908.—George Kurtz, 38, American, Cork Mine. He was doing pick work and had made a mining of coal which dropped upon him, causing his death about four hours later.

November 27, 1908.—Ira E. Hurst, 27, American, Waldo Mine. When found he was lying in cross cut with head on rail between wheels of second car. He was bringing a trip of 13 loaded cars from third right heading driving three horses. Cause not known. It is advanced that presumably he was kicked by a wheel horse.

December 2, 1908.—Wade Crislip, 22, American, Interstate Mine. While riding a car going into his room it became derailed, knocking out a prop on the left side of the track, letting a piece of slate fall down which caused his death.

March 6, 1909.—Philip Panea, 27, Italian, Gypsy Mine. He was digging on a stump, when he had struck but a few licks when the stump fell on him mashing his head, killing him instantly.

May 10, 1909.—Mike Tartzio, 35, Italian, Gypsy Mine. He was working on slate and had gone in No. 10 room on 2nd right air course to clean up a small fall when some slate fell on him, resulting in his death a few hours later.

May 18, 1909.—Joe Fegada, 45, Hungarian, Perry Mine. He had been mining a stump which fell on him, and before aid could be secured, a fall of draw slate came, crushing the life out of him.

May 19, 1908.—Pete Gallion, 34, Italian, Fall Run Mine. Had been mining a stump and had finished with the exception of a few lumps to fill his car, when he was caught by a fall of slate, causing his death.

May 25, 1909.—Sam Joseph, 20, Syrian, Meadowbrook Mine. He was boring a hole on the left rib when the slate fell on him, killing him.

June 28, 1909.—Joe Penor, 28, Austrian, Viropa Mine. He was standing by the side of the car leveling the coal when a lump of coal on the rib rolled down over the slate on him, mashing him through chest and abdomen. He died at the Miners' Hospital July 25, 1909.

UPSHUR COUNTY.

October 3, 1908.—Angelo Corobotte, 47, Italian, Red Rock No. 1 Mine. Was pushing water car on side track leading to second right entry, motor struck water car knocking it on him, killing him instantly.

January 21, 1909.—James A. Wallace, 26, American, Red Rock Mine. He was loading car when slate fell knocking him down, killing him instantly.

BARBOUR COUNTY.

February 18, 1909.—Joe Poliskey, 35, Polish, Berryburg Mine. He was tightening nut on pump, the wrench slipped, and his coat was caught in the cog wheels pulling his arm in. He was taken to the Miners' Hospital where he died March 5, 1909.

PRESTON COUNTY.

October 14, 1908.—Patsy Knobly, 28, Italian, Masontown. No. 6 Mine. He left his working place and stepped between the car fifty feet from his working face; he was crushed so severely that he died a few hours after the accident.

October 27, 1908.—Philip Mitter, 20, American, Austen No. 1 Mine. He had finished his days' work, and started out, but stopped to talk with a fellow workman, when he was caught by a fall of slate, resulting in instant death.

January 3, 1909.—Pete Rovelli, 26, Italian, Masontown, No. 6 Mine. A motor runner. He started motor down a grade at a speed of twenty-five miles an hour, and as he was going around a curve the trolley pole left the wire, knocking him off the motor, running over him, the result of which was instant death.

March 18, 1909.—Ray Rohr, 23, American, No. 2 or Bretz. He was fastened between car and foundation, while engaged with two other men in dropping an empty car over dump. The injured party lived six hours after being hurt.

MINERAL COUNTY.

August 27, 1908.—William A. Brathwait, 29, American, Montgomery Run No. 19 Mine. Was killed instantly by a blown through shot from the next room.

September 1, 1908.—Joe Wilhelm, 31, American, Ott No. 20 Mine. He was laying a piece of track when a large rock fell on him, crushing the life out of him instantly.

September 11, 1908.—Albert Warwick, 45, American, No. 6 Mine. He was in the act of chopping a prop in a place that had been abandoned two days before, when the roof caved in, burying him about 1:30 P. M. He was taken out about 3:30 P. M.

September 18, 1908.—Harley Harris, 15, American, Mine No. 10. He was run over and killed by a loaded car while going from one trap door to the other.

January 26, 1909.—Robt. W. Hudson, 17, American, Montgomery Run No. 19 Mine. Was run over by car, and died ten hours later.

RANDOLPH COUNTY.

January 10, 1909.—Ray Proudfoot, 19, American, Weaver No. 1 Mine. He attempted to jump on a car from the front, fell and was dragged a long way. He lived but two hours after the accident.

TUCKER COUNTY.

October 1, 1908.—Larry Covalitis, 34, Lithuanian, Thomas No. 34 Mine. Was killed by fall of roof. Had insurance to the amount of \$200.

October 16, 1908.—William Kalnotsky, 37, Thomas No. 34 Mine. He fell off of ascending cage, and was injured to the extent that he died an hour later.

February 10, 1909.—Joseph Wotara, 28, Italian. Douglas No. 5 Mine. While mining, coal fell on him, crushing his head. Death was instantaneous. His brother, Salvador, was non-fatally injured at the same time.

MASON COUNTY.

November 5, 1903.—Thomas Farley, 52, American, Linden Mine. He was killed by flying coal. The accident occurred at 4:30 P. M. and he died 10:30.

PUTNAM COUNTY.

July 18, 1908.—Augustus C. Stephens, 55, American, Black Betsy No. 2 Mine. Was injured by fall of coal while shoveling from under the loose slate. He died July 27, 1908.

January 14, 1909.—Isaac Smith, 30, American, Oak Forest Mine. He was cutting coal, failed to obey warning to move, finally coal fell injuring him, and he died two days later, January 16, 1909.

April 15, 1909. Stanhope Taylor, 32, Negro, Manilla Mine. He was found dead at the face of his room a few minutes after the accident. The supposition is that he had gone back on a shot.

FAYETTE COUNTY.

July 1, 1908.—Jack Lanskie, 35, Polish, Scarbro Mine. He came in contact with a live wire, and was electrocuted.

July 7, 1908.—Cecil Buster, 18, Negro, No. 2 South Mine. This man was lying beside the motor track and had fallen asleep. His right leg having been on the track was run over by in-going locomotive and badly lacerated. He was taken to Charleston General Hospital on day of accident, where he died the next day.

July 17, 1908.—Marco Marinkov, 45, Polish, Carlisle Mine. He was, judging from the position in which he was found, under-cutting the top coal when it fell, killing him.

July 18, 1908.—Liven Lasinki, 22, Russian, Brooklyn Mine. This man

was loading the last car, was in a hurry, neglecting to properly examine the roof and a piece of slate fell on him injuring him in such a way that he died in a half hour.

October 27, 1908.—John Dalton, 15, American, Star Mine. He was on front end of a trip of empty mine cars and fell off, one car passing over him. He lived four hours after the accident.

August 25, 1908.—Paul Adams, 35, Russian, Kohinoor Mine. While wet with rain, came in contact with live trolley wire outside of mine. Death was instantaneous.

August 29, 1908.—Joe Deforle, 35, Italian, No. 2 North Mine. He was riding out of the mine on the rear end of a motor trip when he struck his head against an overcast, which threw him from the car and rendered him unconscious. He was lying on the motor road in this condition when the gathering locomotive came along, crushing him to death.

September 4, 1908.—Sam Moody, 16, American, Cliff Top No. 1 Mine. This boy worked with his father, and was in the habit of leaving his work and jumping on running cars; he was warned, by his father, at this particular time to stop this practice, but refused to obey. He fell under the cars, breaking his neck instantly.

September 5, 1908.—Garfield Peake, 24, Negro, Stuart Mine. He was bringing a mule up in the cage, neglecting to fasten the gate of the cage the mule crowded him off, the fall resulting in his death.

September 5, 1908.—Julius Volgae, 36, Austrian, Rush Run Mine. While leaving his work on the way out of mine, slate from the roof unexpectedly fell on him, crushing him from which he died in thirty minutes.

September 9, 1908.—Price Mitchell, 42, Negro, Stone Cliff Mine. Was killed instantly, while mining, by fall of kettle bottom.

September 9, 1908.—Henry Carter, 23, Negro, Stuart Mine. He sprang on the bucket as it was lifted from the scaffold 150 feet down where he was working. This caused the bucket to swing, so that it caught the upper timbers; he was knocked off the bucket and fell about 50 feet, resulting in his death.

September 15, 1908.—Joe Stoney, 22, Polish, Wingrove Mine. He was working at pit bottom coupling the empty cars, and it is supposed that he was electrocuted by coming in contact with electric wires.

September 22, 1908.—Robert Smith, 16, American, Harvey Mine. While winding a windlass the crank slipped, striking his skull, causing his death.

September 23, 1908.—Edgar Withrow, 17, American, Ridgeview Mine. Fell from car which ran over him, which resulted in instant death.

September 25, 1908.—Cornelius Bird, 45, Negro, No. 2 South Mine. Attempted to climb over top of mining machine with crow bar in his hand, the crow bar fell and caught in the chains of the machine, throwing him with such force, causing instant death.

September 26, 1908.—John Jukis, 36, Polish, Whipple Mine. Was injured, while mining coal fifteen inches from roof, by fall of top coal. Died October 2, 1908.

September 28, 1908.—James Brown, 27, American, Dunloop No. 2 Mine. This man was working on the 4th right entry taking out the chain pillar when a kettle bottom fell on him, killing him instantly.

October 9, 1908.—Toney McNitch, 30, Russian, Brooklyn Mine. This man had just completed his day's work and going to the tool station became entangled in the wire. The shock killed him instantly.

October 12, 1908.—Lundy Fox, 25, American, Sunny Side Mine. It is not known how he came in contact with wire as no one was present and it was about an hour before body was discovered. He had moved a machine into 1st left off Newton entry and was on his way out of Newton entry at time of accident.

October 3, 1908.—Willie Krouse, 17, American, Minden No. 3 Mine. In his attempt to jump on front end of motor as had always been his custom, fell under the motor and was crushed to death.

October 17, 1908.—Delbert Walker, 17, American, Layland Mine.—He was playing with the motor right over the mouth pit (in the motor barn) one foot on one rail and the other foot on the other rail; he deliberately reversed the motor and turned the controller around thus running the motor against him, crushing his leg, resulting in his death on October 20, 1908.

October 19, 1908.—Vete Angelo, 28, Italian, Beech Creek Mine. He knocked out several of the props, thinking they were going to be in the way of parting. Shortly after he began to dig coal, a "kettle-shaped" stone fell striking his neck, causing his death December 1, 1908.

October 23, 1908.—Elijah Blevans, 20, American, Dungen Mine. Was injured, by fall of slate, while mining coal. He died the next day.

November 7, 1908.—Robert Jennison, 45, Negro, Sugar Creek No. 2 Mine. Was working alone on a pillar, when a piece of slate weighing about a ton fell on him, resulting in his death about fifteen minutes from the time of the accident.

November 3, 1908.—Wm. T. Brizendine, 32, American, Meadow Fork Mine. This man's skull was crushed by a premature shot.

December 4, 1908.—Calvon Coffman, 18, American, Minden No. 5 Mine. In jumping from the front end of a motor fell under it and was injured in such a manner that he died shortly afterwards.

December 28, 1908.—Henry Smith, 19, Negro, Sun Mine. Was running larry when he fell off, it passed over him, killing him instantly.

December 29, 1908.—Ed. Kassuth, 16, American, Keeney Mine. Fell off car, breaking his neck.

January 30, 1909.—Alexander Holliday, 30, American, Keeney Mine. This man's skull was crushed by fall of slate.

February 1, 1909.—Manuel Holloway, 45, Negro, Blume Mine. He had just entered his room and started to load car when fall of slate came. He died on way to hospital.

February 10, 1909.—Raymond Mitta, 40, Polish, Carlisle Mine. Was injured by an explosion of powder. He was taken to hospital immediately after the accident, where he died February 18, 1909.

March 3, 1909.—James Gumbush, 35, Hungarian, Collins No. 2 Mine. While mining from cut, against instructions, was smothered to death by a fall of top coal and slate.

March 6, 1909.—Fred E. Goode, 20, American, Boone Mine. Was standing at the mouth of room No. 12 at 11:30 A. M. attempted to jump between cars of a loaded trip that a motor was pulling out of the mine,

was caught between rib and side of last car, and rolled so badly that he died at 4:00 P. M.

March 17, 1909.—C. E. Wellman, 15, American, Minden No. 5 Mine. This boy lay down about 6 or 8 feet inside the trap-door with his feet over one rail and head over the other, the motorman came along with a loaded trip, and ran over him, killing him instantly.

March 18, 1909.—John Coole, 70, Greek, Diamond Mine. Was crushed to death while walking on loaded track, by loaded car running over him.

March 24, 1909.—Ambrose Proctor, 19, American, Sun Mine. While loading coal in car a piece of slate fell from roof striking him across the back and causing injuries, resulting in death shortly afterwards.

March 29, 1909.—Robert Hefner, 55, Negro, Blume Mine. Was run down by car of slate and instantly killed.

March 31, 1909.—Sam Melhorn, Andy Melhorn, William Smith, John Bloomfield, and Charles Jones were killed by an explosion caused by an overcharge of dynamite. A. D. Sydenstricker was also injured in the same manner and same date, death resulting on April 5, 1909.

April 6, 1909.—Calvin Eades, 31, American, Mt. Carbon Mine. A runaway car on incline, (caused by coupling pin coming out,) struck him on the head and arm, causing death.

April 6, 1909.—Thomas Toney, 43, American, Mt. Carbon Mine. Car ran off on incline and caught him on tippie, killing him.

April 13, 1909.—Henry Archer, 25, Negro, Ansted Mine. This man was working on a pillar on No. 6 entry, when a piece of draw slate fell, killing him instantly.

April 20, 1909.—H. F. Daniels, 38, American, Laura Mine. The deceased had been instructed to set posts at 10:30 A. M. same date, but ignored instructions and was killed by fall of slate while loading car of coal.

April 28, 1909.—Walter Copeland, 28, American, Ridgeview Mine. He was working under some bad slate, when it fell, breaking his back, resulting in his death May 5, 1909.

April 30, 1909.—Ludwig Josa, 22, Polish, Dunglen No. 2 Mine. False slip in top caused slate to fall, causing his death.

May 1, 1909.—Theodore Syeneck, 29, Russian, Jones No. 3 Mine. About thirty minutes after taking out prop, rock fell, killing him instantly.

May 5, 1909, Charles Adams, 32, American, Minden No. 2 Mine. Was hauling loaded car, and in going around a curve, the car knocked out a post causing slate to fall, causing his death.

June 3, 1909.—Joseph Lee, 40, Negro, Laurel Mine. Fall of draw slate while setting props, caused instant death.

June 21, 1909.—John J. Spiers, 19, American, Minden No. 5 Mine. Supposition is that he fell off the front end of motor. He was dead when taken from under the motor.

June 30, 1909.—William Walker, 33, Negro, Sun Mine. Fell across live wire resulting in instantaneous death.

KANAWHA COUNTY.

August 4, 1908.—Pete Saunders, 30, Negro, Hugheston No. 2 Mine. Was injured by fall of coal. He was taken to Sheltering Arms Hospital, where he died August 5, 1908.

August 6, 1908.—Chap Asbury, 48, American, West Mine. While pulling the top coal down he knocked out a prop at the face, and continued loading his car before resetting the prop; the slate fell, resulting in his death.

August 12, 1908.—Lianus Williams, 15, American, Kayford Mine. He and his father, D. J. Williams, were widening an entry for the purpose of making a side track in the slope part of the mine, when a piece of coal fell on them. The former was killed, the latter was non-fatally injured.

August 19, 1908.—Justin Dumansky, 45, Hungarian, Republic No. 1 Mine. Was doing pick work, the top coal fell crushing his skull and killing him instantly.

August 28, 1908.—Clarence Tompson, 17, American, Paint Creek Mine. Lost his footing while trying to jump on a mine car, and was run over by same, which caused his death.

September 11, 1908.—R. C. Cowan, 21, American, Red Warrior Mine. He was helping to undercut coal with an electric coal mining machine. They had finished the last run in the place they were cutting and were getting ready to load their machine, when he tripped a post and fell, causing a fall of slate, killing him instantly.

September 26, 1908.—Wincas Cerkakas, 36, Polish, United Splint Mine. Had begun to load coal when fall of slate came killing him instantly.

October 8, 1908.—B. F. O'Dell, 68, American, La Mont Mine. Fell from bin under tipple, a distance of 20 feet, killing him instantly.

October 19, 1908.—Calvin E. Bridwell, 38, American, Oakley Mine. At time of accident he was under the tipple loading coal in R. R. cars, and in trying to get out of the way of trip of runaway cars on incline, was struck on head by flying coal, resulting in his death.

November 18, 1908.—John Henneman, 55, German, Scranton Mine, was working on pillar work and was loading a car, when a piece of draw slate fell, crushing him, causing his death.

November 20, 1908.—Harry Akins, 20, American, Red Warrior Mine. Was loading out a shot of coal which had about eight mine cars in it. He was loading the seventh car when a fall of draw slate came mashing him through body, causing instant death.

December 17, 1908.—James Young, 24, Negro, Ruby Mine. He was helping to pull down a piece of draw slate, which fell and caught him, death being instantaneous.

December 23, 1908.—John L. Peifater, 42, American, Oakley Mine. He was struck by paddle of fan while trying to oil fan and was killed.

January 4, 1909.—George Cadwallander, 19, American, Paint Creek Mine. He was working with seven other men cleaning up slate at a break-through between two rooms, preparing to put a road from one room to another, when slate fell, killing him.

January 9, 1909.—Joe Jurasits, 35, Hungarian, Kelley's Creek No. 3. This man went in another man's place after a charge had been set off, and was killed instantly by a blown through shot.

April 2, 1909.—L. M. Bailey, 28, American, Chesapeake No. 3 Mine. Was killed by fall of slate while loading a car of coal.

April 13, 1909.—Ira Ballard, 15, American, Belleclare Mine. He fell from a mule and was dragged to death.

June 11, 1909. William Balser, 56, American, Blakeley Mine. He was warned not to start out ahead of the car, but failed to obey warning. He reached the outside but did not get off of track. The car ran over him, dragging him about 20 feet, causing death.

June 29, 1909.—Ira Blake, 20, American, Republic No. 3 Mine. Was riding on the front end of gathering motor, fell off and was crushed to death by motor running over him.

June 30, 1909.—Frank Scott, 17, American, South Carbon Splint Mine. It is supposed that he attempted to step on the rear car of the motor trip as they were being backed in on one side track, caught under the wheels of the car, and was killed.

August 4, 1909.—Alex. Melick, 35, Slavish, Eccles No. 11 Mine. The deceased was shoveling coal from face of heading when piece of sand stone fell upon him, which resulted in his death.

August 28, 1908, Davy Furgerson, 29, Scotch, Raleigh No. 6 Mine. Had been instructed to take down loose slate, but failed to do so, and was caught by fall of same, resulting in his death September 6, 1908.

September 9, 1908, James G. Ford, 27, American, Piney No. 3 Mine. Death was caused by knocking prop from under loose slate, which struck him edge ways.

September 11, 1908.—Villan Centsesky, 40, Polish, Cranberry Mine. While mining slate fell, breaking his neck and back, killing him instantly.

September 21, 1908.—Harry M. Cole, 24, American, Lanark Mine. It is supposed that he was kicked by mule and knocked off of car, which ran over him. He died at hospital October 5, 1908.

October 7, 1908.—Joe Kohot, 28, Slavish, Raleigh No. 3 Mine. Came in contact with live wire, and died in twenty minutes.

October 8, 1908.—Ben Owens, 30, American, Cranberry Mine. Was taking down slate, when he deliberately knocked out a post, which fell on him. He was taken to hospital, where he died October 13, 1908.

October 31, 1908.—Conn Proto, 35, Italian, Eccles No. 11 Mine. He was caught between cars at bottom of shaft and crushed, causing instant death.

November 11, 1908.—William McCartney, 32, Scotch, Raleigh No. 3 Mine. Was making a cut in a stump, when slate gave way, catching him mashing him through chest, resulting in death three hours later.

December 10, 1908.—Jeff Pollard, 30, Negro, Stonewall No. 3 Mine. The deceased was digging coal in room No. 6 on 3rd entry when a piece of slate fell catching him under it, causing instant death.

December 30, 1908.—James Hunter, 25, American, Dorothy Mine. This man was standing at end of motor when another motor came with empty trip ahead of him. Injured party thought switch was changed for the other entry and he stood still, empty trip struck his motor catching him between cars and motor, inflicting injuries which resulted in his death January 6, 1909.

January 11, 1909. Steve Partuta, 33, Slavish, Oswald Mine. He came to his death by fall of slate, due to his own neglect.

April 10, 1909.—Curtis Gilliam, 25, Negro, Cranberry Mine. The deceased was shoveling slack from under the machine, when he was killed by a fall of kettle bottom. Will Ross was non-fatally injured at this time.

April 27, 1909.—Domingo Largon, 35, Spanish, Lanark Mine. Was badly mashed by fall of slate, which caused instant death.

May 13, 1909.—George W. Pearson, 31, English, Cranberry Mine. Was taking down some draw slate when a piece of kettle bottom fell breaking his neck, resulting in instant death.

May 17, 1909.—Riley W. Barger, 36, American, Sprague Mine. Was killed instantly while trying to take down some loose slate, which fell on him.

June 18, 1909.—Joe Stokel, 46, Polish, Graham Mine. Was caught by fall of slate and killed.

June 22, 1909.—John Ross, 31, American, Prosperity Mine. Was mining in a break-through about 8 feet wide when coal fell, breaking his neck, death ensuing immediately.

MERCER COUNTY.

July 7, 1908.—Harry Buckhannon, 14, American, West Mine. He was sitting near a trap door and a piece of slate fell from the roof, crushing his head and skull, killing him.

July 11, 1908.—Steven Allen, 50, Negro, Pinnacle Mine. He had loaded his car, signalled the hoistman to go ahead, then stepped in front of the car to go on the other side. Just as he was half way across, the car started, his right foot being caught by the cable, the car wheels passing over that leg. He was sent to Miners' Hospital, where he contracted pneumonia, dying from same July 19, 1908.

July 27, 1908.—Ed. Logan, 30, Negro, Buckeye South Mine. He was knocked off of car, by mule, which ran over him killing him.

August 20, 1908.—Joseph Warmuth, 28, Hungarian, Spring Mine. He was cautioned on the morning of the accident not to start to work until he had propped his wrking place. Disregarding all instructions, he went ahead and was killed by fall of slate.

September 16, 1908, Fred Davis, 18, American, Pinnacle South Mine. While puling down some coal with his pick, the slate gave way without warning, crushing him so that he died within half hour.

Novemembr 6, 1908.—Ed Day, 24, Negro, Pawama No. 1 Mine. He had been loading coal into a car and had cleaned up all of the loose coal there, and was waiting for some loose slate to fall so he would not have to move it, while waiting was mashed to the ground and killed by fall of slate.

November 24, 1908.—John G. Lester, 24, American, Weyanoke Mine. He had made a shot and was shoveling coal when the rock fell killing him.

December 12, 1908.—Jacob Hodges, 28, American, Crystal Mine. Deceased was at work tamping a hole preparatory to blasting, and while thus engaged, a kettle bottom fell on him crushing him to death.

January 30, 1909.—Raleigh P. Adams, 21, American, Spring Mine. This man was working in the entry known as second left heading, when a piece of drawn slate hanging on the rib at face of entry fell on him, killing him instantly.

April 5, 1909.—John Shomlar, 45, Slavish, Crane Creek No. 1 Mine. He was working at the face of twelfth cross entry, digging at the coal, while overhead was a piece of draw slate, and had been warned at the time that it was dangerous, but he thought the piece solid enough. While working it broke loose and killed him almost instantly.

May 27, 1909.—A. D. Reynolds, 38, Negro, Coaldale Mine. This man was killed by a sudden fall of coal and slate.

May 29, 1909.—Frank Marlowe, 41, American, Coaldale Mine. Was cleaning up a fall, working under loose slate, when a piece suddenly fell, striking him on the head, from which he died the next day.

May 31, 1909.—Charles L. Crawford, 28, American, Spring Mine. Was caught by fall of slate, from which cause he died June 1, 1909.

McDOWELL COUNTY.

July 7, 1908.—John Bell, 24, Negro, Peerless Mine. He was shooting down slate and loading it in cars, when slate, which had been considered safe, fell on him, mashing his head and body, causing his death.

July 13, 1908.—George Eagle, 15, German, Big Sandy Mine. Left his trap door contrary to mine foreman's order, and was helping brakeman, was standing along side of trip when car jumped track, crushing him to death.

July 17, 1908.—Arthur Brown, 15, American, Indian Ridge Mine. He was pushing empty car when loaded trip knocked him off the tippie; his head being crushed, killing him instantly.

July 18, 1908.—Roman Stick, Russian, Crozer No. 2 Mine. He left his room and went into his neighbor's room, who warned him of the loose slate there, which he disregarded, and in a few minutes about one ton of slate fell crushing him to death.

July 30, 1908.—Andy Govnick, 42, Hungarian, United States No. 1 Mine. Was under-cutting when coal fell, crushing him to death.

August 4, 1908.—Jas. Melton, 21, Negro, United States No. 2 Mine. While putting in a cut at top of coal, piece of slate fell breaking his back, causing his death.

August 6, 1908.—George Patterson, 24, Negro, J. B. B. No. 2 Mine. Was dumping cars and had taken checks from them to take to the weighman when he backed into a live wire, which struck him on the head resulting in instant death.

August 7, 1908.—George Hinkle, 35, American, No. 3 Mine. He and some workmen pulled down all the slate they thought was loose, set posts and began to load coal, when the slate gave way, crushing him to death.

August 7, 1908.—George Dobson, 51, Negro, Eureka Mine. Was killed instantly by fall of slate known as "kettle bottom."

August 7, 1908.—George T. Crigger, 18, American, Hall No. 1 Mine. Was struck on head by slate, brain fever set in from which he died September 5, 1908.

August 22, 1908.—Jack Catzen, 40, Greek, Lynchburg Mine. He was riding between loaded cars that were pulled by motor, fell under the cars, and died a few hours after the accident.

August 25, 1908.—Alex. Kish, 40, Hungarian, Jed Mine. He had been working alone, and was dead when found by a driver under a fall of draw slate.

August 29, 1908.—Tom Duncan, 17, American, McDowell No. 2 Drift Mine. He had almost finished the stump he was working on, was loading car, when, without warning, the roof fell crushing him to death.

August 31, 1908.—John Pannick, 35, Polish, Jed Mines. He was working alone when slate fell, killing him instantly.

September 1, 1908.—Toney Majchorntz, 27, Slavish, Pando Mine. This man was killed by a fall of slate, due to his own carelessness.

September 1, 1908.—G. A. Jackson, 30, American, Arlington Mine. He aimed to drop car in his room, but missed his place going into another place not driven so far striking face of coal unexpectedly, crushing his body, resulting in his death.

September 4, 1908.—Robert Gayle, 35, Negro, Piney Mine. Digging under a hanging shot in the coal, same fell on him crushing him to death.

September 24, 1908.—Taylor O'Neil, 38, American, Big Sandy Mine. Had mined out to a "horseback" and fired the slip, which let the slate fall, breaking his neck, resulting in instant death.

October 17, 1908.—Paul Ziaccuve, 34, Italian, Tidewater Mine. He was making an undercut when about a mine car load of coal fell and killed him.

October 23, 1908.—Charles Stelma, 26, Polish, United States No. 3 Mine. While mining was crushed to death by fall of coal.

October 28, 1908.—George Washington, 25, Negro, Tidewater Mine. While cleaning up some loose slate, he was caught by a fall of slate, was injured so badly that he only lived about an hour when brought to the outside of the mine.

November 11, 1908.—Charles Rose, 25, Italian, Eureka Mine. When he was loading coal that had been shot, a big lump that was caught against the rib rolled over on him and caused his death.

November 21, 1908.—William Furgus, 25, Negro, Pulaski Mine. This man was crushed to death by fall of slate.

December 3, 1908.—James Green, 40, Negro, King Mine. Was killed by an explosion of gas. Four men were non-fatally injured at this accident.

December 12, 1908.—Alford Bradley, Page Mine. Was killed, while mining, by fall of slate.

December 22, 1908.—William Burns, 33, Scotch, Bottom Creek Mine. In trying to take down some props, slate fell, pinning him down, from which injuries he died in a few minutes.

December 23, 1908.—Pascol Larezza, Italian, Eureka Mine. Mine foreman in charge had given positive instructions to the deceased to set timber before loading coal, which he failed to do, and was killed by fall of slate.

December 29, 1908.—The following persons were killed by a dust explosion in the Lick Branch Mine, a detailed account of this accident will be found in the appendix to this report.

Americans.

Alexander, Cleve.	Johnson, J. E.
Beatty, Samuel.	Little, Chas.
Belvins, Thomas.	Little, Wiley.
Belvins, Elzy.	Partin, John W.
Cannady, Pleas.	Vaughan, Edward.

Greek.

Brown, John.	George, Meaket.
Poles, Peter.	

Italians.

Rose, Dominic.	Palmara, Tony.
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Hungarians.

Nisuk, Joseph.	Tarrachuke, Karp.
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Russians.

Buschuke, Sinus.	Waumuk, Luna.
Boresky, Gregory.	Parvalic, George.
Buschuke, Nicolý.	Parvalic, Asceny.
Harasmuk, Trofia.	

Negro.

Anderson, Reed.	Miller, John W.
Bolin, David.	Page, Scott.
Calloway, James.	Reynolds, Walter.
Davis, Green.	Rhone, James.
Edmunds, Joseph.	Sanders, J. Kemp.
Estes, Zeph.	Smith, James.
Estes, Joseph.	Swan, Thomas.
Hicks, John.	Unknown Adult.
Holland, Albert.	Webber, Robert.
Holland, John A.	Webber, Matthew.
Lockett, Richard.	Williams, Robert.
Lockett, Joseph.	Williams, Buck.
Lockett, James.	

January 1, 1909.—Augustus Johnson, 17, Negro, Keystone Mine. Jumped off of car, which ran over him, crushing him to death.

January 5, 1909.—F. D. Calaway, 40, Negro, Upland Mine. Had just finished loading car, and stepped in front of same, to clean up some loose coal, when draw slate gave way, falling on him, causing his death.

January 11, 1909.—Steve Juda, 40, Hungarian, Roanoke Mine. Had

been warned by mine foreman to take down loose slate, but disregarded instructions; when starting to work slate fell on him, killing him.

January 12, 1909.—The following persons were killed by a dust explosion in the Lick Branch Mine, a detailed account of this accident will be found in the appendix to this report:

Americans.

Ayres, James.	Mahoney, John.
Arrington, Daniel.	Miller, Dowdy.
Abel, Albert.	Miller, A. R.
Bolin, J. Henry.	McDade, A. P.
Buffalo, Floyd.	Peters, George.
Buffalo, Robert H.	Phillips, Chas.
Bates, Henry.	Phillips, Everett.
Collins, Edward R.	Smith, John.
Clark, Steven C.	Surratt, William R.
Eversole, W. E.	Surratt, David A.
Hague, John.	Wyatt, Robert.
Holliday, Con J.	Weiford, C. B.
Jones, Joseph.	Unknown.
Johnson, Ben.	Unknown.
Leonard, H. A.	Unknown.
Meyers, Thomas.	

Negroes.

Baldwin, Luther.	Jones, A. R.
Clark, Elk.	Lee, Henry.
Cobbs, J. H.	Lce, Brown.
Crawford, Pink.	Manns, Bruce.
Darphy, William.	Martin, Walter.
Dean, Lemuel.	Martin, J. F.
Ensley, George.	Mitchell, John.
Giles, Walter.	Mitchum, Clarence.
Hairston, Frank.	Rose, Ed.
Hairston, C. J.	Staples, Taylor.
Heppenstall, Peter.	Teriy, Ernest.
Hill, Robert.	Wood, Ed.
Howard, Charles.	Walter, Henry.
Hutchinson, Tabe.	Watson, Daniel.
Hunter, John.	Unknown.
Hunter, Melvin.	Unknown.
Johnson, Anthony.	Unknown.

Hungarians.

Robensky, George.	Robensky, Mike.
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January 18, 1909.—Mike Marci, 28, Italian, McDowell Mine. He was

undercutting face of his room when piece of draw slate fell, killing him.

January 18, 1909.—Dan Hariston, 42, Negro, United States No. 2 Mine. Jumped on motor at drift mouth, his coat caught on nail in second set of timbers, pulling him off of motor, squeezing him to death.

January 19, 1909.—Pascal Mashear, 35, Italian, Eureka Mine. He was cleaning undercut, under coal, when coal fell on him knocking him against a prop, killing him instantly.

February 4, 1909.—James Robinson, 28, American, No. 2 Mine. Was tamping hole under piece of draw slate, when it fell, bruising him through hips, resulting in his death on May 24, 1909.

February 8, 1909, Antonio Popa, 35, Polish, United States No. 2 Mine. While cutting coal at the top, it fell between the two sets of timber and face of coal striking him, causing instant death.

February 9, 1909.—W. C. James, 40, Negro, Tidewater Mine. He was stooping over knocking his can against the floor to settle the powder, and must have dropped a match into it, making a spark, causing an explosion, which resulted in his death.

February 12, 1909.—Joseph Acrobat, 24, Italian, No. 3 Coke Yard. He was propelling machine from lower to upper end of coke yard, got off while it was in motion to throw a piece of iron on the machine and while doing so, put his foot on the rail which was run over and crushed by the truck wheel, resulting in his death.

February 17, 1909.—Shedreck Stevens, 20, Page Mine. A piece of slate fell, when taking first cut out of break-through, resulting in internal injuries, from which he died.

February 18, 1909.—Jarvis King, 40, Negro, Gilliam Mine. A fall of coal killed him instantly.

March 4, 1909.—Tom Smith, 38, Negro. Bottom Creek Mine. He was loading a car at the face of back entry off No. 10 when a kettle bottom fell, catching him, from which he died instantly.

March 8, 1909.—John Smith, 19, Negro. Roanoke Mine. Probably stepped on rail and slipped, wheels of larry ran over and crushed one leg and one foot. He died the next day.

March 17, 1909.—Robert Walker, 27, Negro, Delta Mines. He was working in No. 6 room on crop entry, digging a cut when a piece of slate fell, striking him on the chest and mashed his head against the coal. Was injured at 1 P. M. and died at 9:50 P. M.

March 18, 1909.—Jess Casey, (Akers), 17, American. No. 2 Mine. Was on rear car on trip and ran forward to about the fifth car from rear then jumped up and caught hold of one of the cross-arms or suspensions for trolley wire and after about two cars had passed under him dropped presumably expecting to light on third car from rear. He fell head first, cars running over him, resulting in instant death.

March 21, 1909.—Joe Reed, 52, Negro. Berwind No. 1 Mine. Was proceeding to his place of work, jumping in an empty mine wagon to ride into the mines. While trip was going up third right entry, which has a severe grade, it broke loose from motor running down the hill, he jumped out landing against rib, was badly injured, dying the next day.

March 22, 1909.—Joe Ross, 23, Italian, Empire Mine. Was making an undercut when coal fell on him, causing his death.

March 25, 1909.—Vasile Telea, 28, Roumanian. Shawnee Mine. While clearing away to set props, a large piece of slate fell mashing him to the ground, killing him.

March 25, 1909.—Frank Costelitz, 47, Roumanian. Shawnee Mine. This man was killed by fall of slate, while setting props.

March 27, 1909.—Thos. Thruce, 37, American, Jed Mine. Was snubbing coal when it rolled over and knocked a prop on him breaking his back. Died within two hours.

March 5, 1909.—Robert L. Kennedy, 17, English. Central Pocahontas Mine. In an attempt to get out of the way of a car that left the track it turned over down the hill, was struck by same and killed almost instantly.

April 20, 1909.—Julian Hyda, 42, Hungarian, United States No. 1 Mine. While pulling down one piece of slate another fell on him, resulting in instant death.

April 21, 1909.—Edward Gilbert, 18, American. McDowell Mine. Was driving mule, stumbled and fell in front of car, which ran over him, causing his death.

May 3, 1909.—A. J. Lile, 64, American. Middle States No. 11 Mine. Was coming up on cage when he fell off breaking his neck and legs, killing him instantly.

May 13, 1909.—Jos. Garrity, 26, Negro. Jed Mine. Was greasing trip of cars and was rolled by trip against rib, injuring him internally. He died the next day.

May 13, 1909.—James Rouse, 25, Negro. King Mine. The car was almost loaded when the injured looked over in the car, a piece of slate fell without warning and caught his head over edge of car, killing him instantly.

May 15, 1909.—J. Arthur Nelson, 22, American, Angle Mine. He had started home changed his mind went back to face where he had made his shot, when a kettle bottom fell on him, crushing his skull, and causing instant death.

May 21, 1909.—Jas. Hazas, 26, Hungarian, Piney Mine. He was mining under some coal that had been shot when it fell, crushing his head, killing him.

May 27, 1909.—Mike Rinkish, 42, Peerless Mine. This man was working under a foreman who had shot down and dressed the top. All slate had been taken to the main top, which he examined and considered safe. While they were cleaning up slate, a kettle bottom fell, killing the former instantly.

June 7, 1909.—John T. Thompson, 49, American, Slick Rock Mine. While sounding the top in the breakthrough, a large piece of slate fell on him, resulting in his death on June 13, 1909.

June 8, 1909.—Henry A. Addison, 35, American. J. B. B. No. 2 Mine. This man was alone when found. Had been crushed by fall of slate.

June 9, 1909.—Jas. Tackett, 40, American. Maher Mine. He was loading coal and had intended loading what they had down before taking down the slate which they noticed was loose. While doing so it fell,

striking him on head and shoulder, from which injuries he died on June 11, 1909.

June 10, 1909.—Mike Cutson, 52, Hungarian. Page Mine. Was mining coal when slate fell killing him.

June 11, 1909.—Robert Lambert, 22, Negro. Peerless Mine. This man was pulling a car out of 24 room on 18 entry and in some way got caught between car and rib, breaking his neck, resulting in death.

June 11, 1909.—James Woody, 22, Negro. Shamokin Mine. He was braking behind motor, fell from car on empty trip, run over by three empty cars and injured internally, dying from shock a few hours later.

June 21, 1909.—Nathan Smith, 50, Negro. Piney Mine. Was digging some coal off the face of room No. 20 first cross, when a kettle bottom fell, crushing him through breast and stomach, resulting in death.

LOGAN COUNTY.

July 10, 1908.—Frank Hensley, 14, American. Monitor Mine. This boy ran up entry to ride down on loaded car, and in the attempt to get on front end of car, his foot slipped, falling across track. The front wheel of the car passed over his chest, resulting in instant death.

July 28, 1908.—Arthur Scott, 20, American. No. 6 Mine. He was riding car, and his neck came in contact with trolley wire, death following almost instantly.

October 23, 1908.—Mike Stico, 23, Hungarian. No. 5 Mine. Driver was hauling two cars down grade, he attempted to drive his mule in opposite direction to which the switch was thrown, which resulted in pulling cars off the track and catching him between cars and rib, crushing him to death.

December 4, 1908.—Joe Bossia, 30, Hungarian. Monitor Mine. He stepped aside to allow tri car to pass. A car of trip wrecked on frog derailing four cars, the first caught him between rib and car, killing him instantly.

December 7, 1908.—R. P. Anderson, 29, American. Monitor Mine. Fell off of car, front wheels passing over his left leg near thigh. He was taken to the hospital where he died three hours after accident.

December 30, 1908.—Harry Honaker, 17, American. No. 3 Mine. Jumped off of motor to throw a switch, slipped and fell in front of moving motor, which broke his back and crushed his head.

January 6, 1909.—Louis Thacketa, 30, Roumanian. No. 2 Mine. Was walking down main heading in No. 2 mine carrying a coal auger on shoulder, and in turning caught it in trolley wire, the current passing through his body, killing him almost instantly.

April 19, 1909.—Robert Johnson, 18, Negro. Ethel Mine. Was helping an experienced miner under slate thought to be safe, when it fell injuring his back and head, from which he died at Logan Hospital, May 5, 1909.

June 10, 1909.—Joe Hensley, 18, American. Monitor Mine. This man fell from mine car and was killed.

MINGO COUNTY.

July 14, 1908.—Marcus L. Milem, 21. Grapevine Mine. In an attempt to detach a mule from a moving car was thrown against the rib, receiving injuries which resulted in his death at Miners' Hospital No. 1, Welch, W. Va., on August 8, 1908.

August 8, 1908.—Gailard Carraway, 18, American. Rutherford Mine. Was in runaway on incline, the fall resulting in instant death.

August 8, 1908.—Sam Carraway, 20, American. Rutherford Mine. Was killed by runaway on incline.

August 8, 1908.—Scono Ronat, 32, Italian. Rutherford Mine. Was killed by runaway on incline.

September 15, 1908.—Harve Blankenship, 33, American. Margaret No. 1 Mine. Deceased was loading coal when small piece of slate fell from over head, killing him instantly.

September 22, 1908.—Wasil Popif, 34, Bohemian. Red Jacket Mine. Had loaded his car, and sat down to rest with his back against a post, slate broke off on the rib side causing it to slide the post set under it, falling on him, killing him instantly.

December 8, 1908.—Jas. Williams, 21, American. Rutherford Mine. He was working in main air course alone and when motorman went to pull his car he found him under a piece of slate, crushed to death.

December 22, 1908.—Toney Praco, 35, Italian. Glen Alum Mine. He unoccupied loaded car from trip at shop, with the intention of riding to head house, car running away injuring him, from which he died at Welch Hospital, December 26, 1908.

February 3, 1909.—W. S. McClure, 40, American. Thacker No. 3 Mine. Was run over by trip of cars, and killed instantly.

May 13, 1909.—Robert Anderson, 15, American. Chat'taroy Mine. He left his door and caught an empty car that was passing, and when about 200 ft. farther in, a fall occurred, which resulted in the boy's death seven hours later.

May 19, 1909.—Benney Sernal, 23. Glen Alum No. 1 Mine. He was working on a pillar and was loading car, when a piece of slate fell from over the roadway and between the props, striking him, breaking his neck, resulting in instant death.

June 28, 1909.—Edward Fanning, 19, American. Logan Mine. Was cleaning up slate when another fall of slate knocked out a prop which struck him, mashing him through hips, from which he died the next day.

CONDITION OF THE MINES.

MINE INSPECTORS.

John Laing, Chief of the Department of Mines, Charleston.

FIRST DISTRICT.

R. S. LaRue, Inspector, Fairmont.

SECOND DISTRICT.

F. E. Parsons, Inspector, Clarksburg.

THIRD DISTRICT.

John F. Bratt, Inspector, Independence.

FOURTH DISTRICT.

J. A. Springer, Inspector, Flemington.

FIFTH DISTRICT.

Earl A. Henry, Inspector, Clifton.

SIXTH DISTRICT.

Bonner H. Hill, Inspector, Chelyan,

SEVENTH DISTRICT.

William Warner, Inspector, Charleston.

EIGHTH DISTRICT.

*J. A. Straughan, Inspector, Thurmond.

NINTH DISTRICT.

*John Phillips, Inspector, Beckley.

Lance B. Holiday.

TENTH DISTRICT.

*D. R. Phillips, Inspector, Bramwell.

ELEVENTH DISTRICT.

*James G. Boyd, Inspector, Bluefield.

William Nicholson, Inspector, Bluefield.

TWELFTH DISTRICT.

Patrick A. Grady, Inspector, Huntington.

*J. A. Straughan, Inspector until April 1st, 1909.

*John Phillips, Inspector until April 30th, 1909.

*D. R. Phillips, Inspector until March 31st, 1909.

*James G. Boyd, Inspector until November 15th, 1908.

The work in these Districts was looked after by Special and other District Inspectors until regular District Mine Inspectors were appointed.

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MINE INSPECTION DISTRICTS.

FIRST DISTRICT.

Counties of *Brooke, Hancock, Marion, Marshall, Ohio, Wetzel, Tyler* and *Pleasants*.

SECOND DISTRICT.

Counties of *Harrison, Lewis, Upshur, Webster, Doddridge, and Ritchie*.

THIRD DISTRICT.

Counties of *Barbour, Monongalia, Preston* and *Taylor*.

FOURTH DISTRICT.

Counties of *Grant, Mineral, Randolph, Tucker, Hampshire, Hardy, Pendleton, Pocahontas, Morgan, Berkeley* and *Jefferson*.

FIFTH DISTRICT.

Counties of *Braxton, Clay* (part), *Gilmer, Fayette* (part), *Kanawha* (part), *Mason, Putnam, Calhoun, Wirt, Jackson* and *Roane*.

SIXTH DISTRICT.

Counties of *Kanawha* (part), *Raleigh* (part), and *Boone*.

SEVENTH DISTRICT.

Counties of *Clay* (part), *Fayette* (part), *Kanawha* (part), and *Nicholas*.

EIGHTH DISTRICT.

Counties of *Fayette* (part), and *Greenbrier*.

NINTH DISTRICT.

Counties of *Raleigh* (part), *Fayette* (part).

TENTH DISTRICT.

Counties of *Mercer, McDowell* (part), *Summers* and *Monroe*.

ELEVENTH DISTRICT.

Counties of *McDowell* (part), and *Wyoming*.

TWELFTH DISTRICT.

Counties of *Lincoln, Logan* (part), *Mingo, Wayne, and Cabell*.
(Italicized Counties are those in which coal mines are operated.)

FIRST DISTRICT.

GENERAL SUMMARY OF THE FIRST MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYES.								Production of		
			Inside.				Outside.				Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Brooke -----	6	2	123	475	73	94	765	80	-----	80	845	449,647	-----
Hancock -----	2	2	16	50	8	23	97	10	-----	10	107	46,756	-----
Marion -----	30	20	1066	1001	246	947	3260	590	72	662	3922	3,733,765	65,213
Marshall -----	7	1	24	223	32	60	339	54	-----	54	393	233,848	-----
Ohio -----	7	1	58	151	14	41	264	29	-----	29	293	158,327	-----
Totals..	52	23	1287	1900	373	1165	4725	763	72	835	5560	4,622,343	65,213

DEPARTMENT OF MINES, STATE OF WEST VIRGINIA,
Fairmont, W. Va., July 1, 1909.

HON. JOHN LAING,

Chief of Department of Mines,
Charleston, W. Va.

DEAR SIR:—I herewith submit to you my annual report as Inspector of Mines in the First District of West Virginia, for the year ending June 30th, 1909.

There are fifty five mines in this District, several of which are very old mines and will soon be worked out. The condition in some of these mines is only fairly good. There are also two new shafts being sunk at Farmington by the Georges Creek Coal & Iron Company, Nos. 3 and 4. These shafts will be about 300 feet deep when completed and will operate the Pittsburg seam of coal on the double entry system.

I am glad to say there has been a great improvement in most of the mines in my District during the past year, in the way of better drainage, better ventilation, concrete brattices, overcast, etc. There seems to be a general disposition among all operators in this District to improve the conditions of their mines in every way possible, in order to secure safety to the men employed in them. I am glad to say I have had no difficulty in having the mining laws complied with this year. I am also glad to be able to report to you that I have had no explosions in any form in my district. No mine fires, no men burned with powder or gas. I have had a few fatal accidents and a few non-fatal accidents during the past year, incident to coal mines, reports of which I have sent you.

I have had all the dry and dangerous mines in my District put under

atmospheric moisture. I think this is one of the most essential things for the safety of mines that can possibly be done, and especially so in highly ventilated mines.

Many years of experience in dry and gasuous mines has fully convinced me, aside from a large volume of air, the temperature and humidity of the air is the most essential thing for the safety of the mine. In my early writings, I advocated the use of safety explosives in dry and gasuous mines. I still advocate their use, but my experience with them has thoroughly convinced me there is no such thing as safety powder. My predictions are, that the greatest mine explosions in the future will be where these so called safety explosives are being used, since too much confidence is being placed in them and not enough attention paid to the actual condition of the mines. It is my opinion that no explosives should be used in any mine where the temperature of the atmosphere entering the working places in the mine, is below the fixed or natural temperature of the mine. The air entering the mine should be heated to exceed the fixed or natural temperature of the mine, and no shots should be fired under these conditions unless the humidity of the atmosphere exceeds 85%. Under these conditions in highly ventilated mines, it is immaterial as to what kind of explosives are used, or when shots are fired, provided they are used by intelligent and practical men. All shot-firing in mines should be done by intelligent, practical men.

Owing to the great number of oil and gas wells and wells drilled for prospecting purposes through the mines and in the undeveloped coal fields of this State, and the great danger threatening the mines of this State from the same, I am in favor of the exclusive use of Lock Safety Lamps in all the mines of this State. I would also recommend the use of these from the fact that it also eliminates all smoke arising from the use of oil in the mines.

I am opposed to the use of electricity in gasuous mines, but since it is being used in the mines of this State, and no law to prevent its use, I would recommend that an automatic governor switch be attached to the fan shaft in such a manner that when the speed of the fan is reduced to one-half of its normal revolution, the electric current entering the mine shall be automatically cut out at the switchboard.

The ignorance of a greater part of the men employed in the mines of this State at the present time, is, no doubt, the cause of many of the accidents that occur.

Another great evil is drunkenness among miners. I believe that seven-tenths of the accidents this year in my District, are attributable to strong drink, either directly or indirectly. This evil seems to be spreading at an alarming rate, and it does seem to me that an effort should be made to forever stamp it out.

While I have firmly insisted on the mining laws of this State being strictly complied with, I have been treated kindly by both operators and miners of my District during the past year.

In conclusion, I want to thank you for your able counsel and kind courtesy to me during the time I have been with you. I also wish to

thank the employers and the employes in my District for their kindness to me during the past year. I am,

Very truly yours,

R. S. LARUE.

CONDITIONS OF THE MINES IN THE FIRST DISTRICT.

The last two series numbers indicate the Inspector's number of the mine while the number or numbers preceding them indicate the number of the district in which the mine is located, Viz: 115 indicates the first district and number 15 mine.

HANCOCK COUNTY.

MARQUETTE COAL COMPANY.

Series No. 101. *No. 4 Mine.*—This mine is located on Harden Run, 3 miles east of New Cumberland. They are operating the Upper Freeport Coal on the double entry system. The coal is delivered to the P. C. C. & St. L. R. R. over a branch road 3 miles long, by an engine owned by the Marquette Coal Co. Ventilation is produced by a furnace and is good. A good quality of oil is used for illuminating purposes. All powder is carried in the mines in 5 lb. cans. A map of this mine has been furnished this office as required by law. Rules are posted. Blankets and stretchers are kept at the mines. The main heading in this mine was driven 1100 ft. through solid rock before striking coal. This is a beautiful mine and is well taken care of, and the coal is of a splendid quality. C. F. WAGONER, Supt. WM. GILMORE, Mine Foreman.

Series No. 102. *No. 5 Mine.*—This mine is situated on Harden Run, 2 miles east of New Cumberland. They are operating the Upper Freeport coal on the double entry system. The coal is delivered over a branch road, a distance of 2 miles to the P. C. C. & St. L. R. R. by an engine owned by the Marquette Coal Co. Ventilation is produced by a furnace and is good. All coal is mined with picks and hauled to the tippie by mules. A good quality of oil is used for illuminating purposes. Rules are posted. Blankets and stretchers are kept at the mines. This is an old mine and will soon be worked out. C. F. WAGONER, Supt. WM. LIDYARD, Mine Foreman.

BROOKE COUNTY.

LEWIS-FINDLEY COAL COMPANY.

Series No. 104. *Locust Grove Mine.*—Located on P. C. C. & St. L. R. R. 2 miles south of Collier's Station. It is a drift mine, operating the Pitts. seam of coal on the double entry system. The ventilation is produced by a fan and is good. The roof in this mine in some sections is not good, but it is well timbered. Powder is carried into the mine in 5 lb. cans. Oil used for illuminating purposes is of a good quality. The second opening meets the requirements of the mining law. The coal is under-cut with Jeffrey Electric Chain Machines and hauled from mines by electric motors. Maps have been furnished this office. Blankets and stretchers are kept at the mines. This coal is used chiefly for coaling engines, this

being a railroad coaling station. The coal is 5 ft. thick and of a splendid quality.

PETER NEIL, Supt.

JAS. PLATT, Mine Foreman.

LA BELLE IRON WORKS.

Series No. 105. *La Belle Shaft Mine*.—This shaft mine is in operation at Steubenville, Ohio. The shaft is in Jefferson County, Ohio. The mine extends under the Ohio River into Brooke County, W. Va. Depth of shaft to surface landing 198 feet. They are operating the Upper Freeport seam of coal on the double entry system. All life was destroyed in this mine at one time by a gas explosion. The mine is producing explosive gas at the present time, and is threatened with destruction from the fact that oil and gas wells are being driven through it. Ventilation is produced by a fan and is fairly good. The coal is under cut with Jeffrey Electric Chain Machines and hauled to the shaft bottom by Jeffrey motors. I have recommended that a shaft be sunk to this mine on the W. Va. side of the Ohio river. Maps have been furnished this office. Blankets and stretchers are kept at the mines. Rules are posted. All inspections have been made this year in company with Mr. Ebenezer Jones, the Ohio Mine Inspector. Open lights are used. A good quality of oil is used in the mine.

R. W. McCASLAND, Supt.

WILLIAM LAFFERTY, Mine Foreman.

JOSEPH CHADWICK, Fire Boss.

REX CARBON COAL COMPANY.

Series No. 106. *No. 1 Mine*.—This mine is located on Cross Creek, on the Wabash Pittsburg Terminal R. R., six miles northeast of Wellsburg. It is a drift opening, operating the Pittsburg seam of coal on the double entry system. The roof is good, consisting of a hard, black slate. The coal is under-cut with Jeffrey Electric Chain Machines, and hauled from the mine by Jeffrey motors, and delivered to the tippie over an incline 250 feet, by rope.

Ventilation is produced by a fan and is good. This mine is inclined to be dry, and the dust is of a highly explosive nature. Great care has to be taken in this respect. Oil used for illuminating purposes is of a good quality. Blankets and stretchers are kept at the mines. Maps have been furnished this office. The second opening meets the requirements of the mining laws. Rules are posted.

ARCHIE DONALDSON, Supt.

WM. GULLEY Mine Foreman.

A. GILCHRIST & SONS.

Series No. 107. *Gilchrist Mine*.—This mine is located on the P. C. C. & St. L. R. R., one mile north of Lazerville. It is a drift opening, operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a furnace and is fairly good. All coal is mined with picks, and hauled out by mules, and delivered to the railroad over an incline 1050 feet long. Rules are posted. Blankets and stretchers are kept at the mines. Oil in use is of a good quality. Maps have been furnished this office. This mine is well taken care of.

A. GILCHRIST, Supt.

W. T. GILCHRIST, Mine Foreman.

LA BELLE COAL COMPANY.

Series No. 108. *Lewis No. 1 Mine.*—This mine is located on the P. C. C. & St. L. R. R., at the southern extremity of Wellsburg. This is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a furnace and is only fairly good. Drainage is only fairly good. The second opening is fairly good. The coal is under-cut with Electrical Chain Machines. Rules are posted. Blankets and stretchers are kept at the mine. Oil is of a good quality. Maps have been furnished this office. Coal is hauled from this mine by use of electric motors, and delivered to the R. R. by an incline 1,025 feet long. 500 volts of electricity are used in this mine. Two men have been electrocuted during the year, one man inside the mine and the other outside the mine near the entrance.

O. L. MARQUETTE, Supt.

WILSON HOLMES, Mine Foreman.

BEECH BOTTOM COAL COMPANY.

Series No. 109. *Beech Bottom No. 1 Mine.*—This mine is located on the P. C. C. & St. L. R. R., six miles south of Wellsburg. It is a drift mine, operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a Robinson fan, and is good. Drainage is good. All powder is carried into the mines in 5 lb. cans. Oil in use is good. Rules are posted. Blankets and stretchers are kept at the mine. The coal is under-cut by use of chain machines and hauled out by motors, and delivered to the railroad over an incline 1800 feet long. 500 volts of electricity are used in this mine. One man has been electrocuted in the mine during the year. This is a nice mine and is well taken care of, and is capable of producing a large out-put of coal, when in full operation. The quality of the coal is very good. The second opening is law-ful.

ELMER HOUGH, Supt.

W. E. WALLACE, Mine Foreman.

OHIO COUNTY.

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RICHLAND COAL COMPANY.

Series No. 110. *Richland Mine.*—This mine is located two miles north of Wheeling, on the P. C. C. & St. L. R. R. It is a drift mine operated on the double entry system in the Pittsburg seam of coal. Ventilation is produced by fan and is only fairly good. Recommendations have been made in regard to second openings. All powder is carried into the mine in 5 lb. cans. Oil used for illuminating purposes is good. Blankets and stretchers are kept at the mine. The coal is under-cut with electric chain machines, and hauled out by Jeffrey electric motors, and delivered to railroad over an incline 250 feet long. Rules are posted. Maps of this mine have been furnished this office.

PAUL LEONARD, Supt.

WM. NIXON, Mine Foreman.

ELM GROVE COAL COMPANY.

Series No. 111. *Elm Grove Shaft Mine.*—This mine is located at Elm Grove, on the B. & O. R. R., 5 miles east of Wheeling. It is operated in the Pittsburg seam of coal on the double entry system. It is ventilated by a fan and the ventilation is good. Drainage is good. All powder is carried into the mine in 5 lb. cans. The oil used for illuminating purposes is good. Maps of this mine have been furnished this office. The second opening meets with the lawful requirements. Blankets and stretchers are kept at the mines. The coal is mined with Jeffrey electric chain machines, and hauled to shaft bottom by Jeffrey electric motors. Depth of shaft 65 feet.

J. B. CHAMBERS, Supt.

ALBERT EIKEY, Mine Foreman.

REYMANN BREWING COMPANY.

Series No. 114. *Manchester Mine.*—This mine is located in East Wheeling, on the Wheeling & Lake Erie R. R. It is a drift mine, operated in the Pittsburg seam of coal on the double entry system. Ventilation is good, is produced by a fan. The main entry is driven through the hill. Drainage is good. Powder is carried into the mine in 5 lb. cans. A good quality of oil is used for illuminating purposes. Maps have been furnished this office. Rules are posted. All coal is mined with picks. No blankets or stretchers are kept at this mine. All mines in city limits use the ambulance in case of accidents to any person employed.

C. C. SCHMIDT, Supt.

JOHN DONAHUE, Mine Foreman

WHITTAKER-GLESSNER COMPANY.

Series No. 115. *Carter Mine.*—This mine is located in East Wheeling, on the Wheeling and Lake Erie R. R. It is a drift mine operated on the double entry system in the Pittsburg seam of coal. Ventilation is produced by a fan and is good. Powder is carried in the mines in 5 lb. cans. A good quality of oil is used for illuminating purposes. A second opening is in a fairly good condition. Maps have been furnished this office. Mine rules are posted. The city ambulance is used in case of accidents to persons employed.

W. H. KAISLEY, Supt.

WM. MAGRUDER, Mine Foreman.

LA BELLE IRON WORKS.

Series No. 116. *La Belle Mine.*—This mine is located on the south side of Caldwell's Run, in South Wheeling. It is operated in the Pittsburg seam of coal on the double entry system. Ventilation is only fairly good, is produced by a furnace. Drainage is fairly good. This is an old mine and has not been well taken care of. This mine has just come under my jurisdiction. I have only inspected it once, and recommended that conditions be changed to meet the requirements of the mining laws.

R. W. McCASLAND, Supt.

W. H. BLOCHIN, Mine Foreman.

J. S. CREIGHTON.

Series No. 117. *Creighton Mine*.—This mine is located near Elm Grove, and is operated in the Pittsburg seam of coal. The coal is used for local purposes, and hauled away from the mine in wagons. This mine did not come under my jurisdiction this year.

J. S. CREIGHTON, Supt.

DANIEL SHAW, Mine Foreman.

PETER STORCH & SONS.

Series No. 118. *Storch Mine*.—This mine did not come under my jurisdiction this year.

PETER STORCH, Supt. and Mine Foreman.

MARSHALL COUNTY.

BOGGS RUN MINING & MANUFACTURING COMPANY.

Series No. 119. *Boggs Run Mine*.—This mine is located on the B. & O. R. R. at Benwood. Is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is only fairly good. The second opening is in a bad condition. This is an old mine and they are retreating, bringing what coal they can get from the interior as they came out. Considerable coal is being lost owing to bad conditions. All coal is mined with picks, and hauled out by rope. A map of this mine has been furnished this office. No blankets or stretchers are kept at the mines. The city ambulance is used in case of accident to any one employed at the mine. Mine rules are posted.

PHILIP KUNTZ, Supt.

EUGENE MILLER, Mine Foreman.

WHEELING STEEL & IRON COMPANY

Series No. 120. *Benwood Mine*.—This mine is located on the Baltimore & Ohio R. R. at Benwood. It is a drift mine operated on the double entry system in the Pittsburg seam of coal. Ventilation is produced by a fan and is fairly good. The second opening to this mine is in fairly good condition. Quite an amount of work has been done in this mine in the way of repairs to the second opening, and air-course parallel to main entry. Powder is carried into the mine in 5 lb. cans. The oil used for illuminating purposes is good. All coal is cut by electric chain machines and hauled out by electric motors. Mine rules are posted. Maps of mine have been furnished this office. The city ambulance is used in case of accident to any one working in the mine.

CHARLES DAWSON, Supt.

WM. TURNBULL, Mine Foreman.

HITCHMAN COAL & COKE COMPANY.

Series No. 121. *Hitchman Mine*.—This mine is located on the B. & O. R. R. at the southern extremity of Benwood. This mine is operating the Pittsburg seam of coal on the double entry system. The coal is reached

by a slope 800 feet long. Ventilation is produced by a fan and is good. Some explosive gas is given off in this mine. The mine has a good electrical equipment. The coal is hauled up the slope to the tippie by endless rope. Outside is a steep trestle 1000 feet long. At the end is a coaling station used for coaling B. & O. engines. The bin at this station holds 1000 tons. All powder is carried into the mines in 5 lb. cans. A good quality of oil is used in the mines. Maps of this mine have been furnished this office. The second opening meets with the requirements of the mining law. Blankets and stretchers are kept at the mines. Mine rules are posted. This mine is well taken care of.

E. C. PICKETT, Supt.

JOHN HULL, Mine Foreman.

CHARLES ERIG, Fire Boss.

GLENDALE COAL COMPANY.

Series No. 122. *Glendale Shaft Mine*.—This mine is located at Glendale, on the B. & O. R. R. It is a shaft mine, 90 feet deep operating the double entry system in the Pittsburg seam of coal. Ventilation is produced by a fan and is only fairly good. Owing to bad condition in the main air course in this mine, quite an amount of cleaning up and repairs are needed to be done. The oil used for illuminating purposes is good. Powder is carried into the mine in 5 lb. cans. Maps have been furnished this office. Blankets and stretchers are kept at the mines. Mine rules are posted.

E. C. PICKETT, Supt. MIKE FREEMAN, Mine Foreman and Fire Boss.

MOUND COAL COMPANY.

Series No. 123. *Moundville Shaft Mine*.—This shaft mine is 165 feet deep and is located on the B. & O. R. R., at the northern extremity of Moundville. It is operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is only fairly good. I have recommended that a second parallel air-way be driven in this mine. Drainage is fairly good. Oil used for illuminating purposes is fairly good. Mine rules are posted. Blankets and stretchers are kept at the mine. The second opening meets the requirements of the Mining Laws.

ADAM LEONARD, Supt. and Mine Foreman.

BITUMINOUS COAL COMPANY OF AMERICA.

Series No. 124. *Bituminous Shaft Mine*.—This mine is located one mile east of Moundville on Parr's Run. This is operating the Pittsburg seam of coal on the double entry system. Shaft is 410 ft. deep. Some explosive gas is liberated. The mine is ventilated by a Jeffrey fan and the ventilation is good. There is but one opening to this mine. The number of men employed is kept below 20 persons. A second opening to this mine has been recommended, and the second shaft to this mine is now being sunk. All powder is carried into the mines in 5 lb. cans. This mine is equipped with electric machinery. All coal is hauled in the

mine with electric motors. Mine rules are posted. Blankets and stretchers are kept at the mines.

O. K. WARD, Supt.

JNO. WALLACE, Mine Foreman and
Fire Boss.

BITUMINOUS COAL COMPANY OF AMERICA.

Series No. 125. *Panama Shaft*.—This shaft is 186 feet deep. Is located one mile south of Moundsville on Graves Creek, operating the Pittsburg seam of coal on the double entry system. This mine was operated last year by the Panama Coal Co. The mine is ventilated by a Robinson fan, and is good. Drainage is good. A fair quality of oil for illuminating purposes is used. The second opening meets the requirements of the mining laws. All powder is carried into the mine in 5 lb. cans. Some explosive gas is given off in the mine but is well taken care of. Maps of this mine have been furnished this office. Mine rules are posted. Blankets and stretchers are kept at the mine. The out-put of coal from this mine in the last year has been small owing to construction work being done outside of the mine in the way of new tippie, new side-tracks, etc.

O. K. WARD, Supt.

JAS. EXTON, Mine Foreman and
Fire Boss.

MARION COUNTY.

GEORGE'S CREEK COAL AND IRON COMPANY.

Series No. 126. *Chatham Shaft, No. 1*.—Mine located on the B. & O. R. R. at Farmington. Shaft 255 ft. deep. Ventilation is produced by one 25 ft. fan and one 20 ft. fan, and is good. The mine is equipped with a large compressed air plant, and all machines and pumps in the mine are run by compressed air. At night in the summer season these air lines are attached to water lines outside of the mine and the mine is thoroughly watered at the face of all working places at night, whenever needed. A system that I would recommend in all mines piped for air. In the winter season steam is used to warm and moisten the intake air in this mine. The coal is hauled to the bottom of the shaft by means of endless rope. The second opening meets the requirements of the mining law. Safety powder is used exclusively and should be in all gaseous mines. Safety lamps are used exclusively. Competent shot firers are employed. Fire-bosses are on duty day and night in the mine. Considerable gas is given off in this mine. It is a beautiful mine and well taken care of. Maps are furnished promptly. Blankets and stretchers are kept at the mines.

N. J. STOCKTON, Supt.

MAX QUENON, Mine Foreman.
MARSH LEEPER,
MIKE CAPUT,
H. T. HALL,
Fire Bosses.

GEORGE'S CREEK COAL AND IRON COMPANY.

Series No. 127. *Chatham No. 2 Mine*.—Located at Farmington on the B. & O. R. R. on the Wheeling division. It is sunk to the lower or Pittsburgh coal and is used as an air intake for Chatham No. 1. It is also used for hoisting the men up and letting them down into No. 1 shaft workings. The Sewickley coal is operated in this shaft, at a depth of 130 ft, but is not being operated at the present time.

N. J. STOCKTON, Supt.

MAX QUENNON, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 128. *Shaft Mine*.—This shaft mine is located one mile north of Fairmont on the B. & O. R. R., Grafton & Wheeling division. Depth of shaft 126 ft. They are operating the Pittsburgh seam of coal on the double entry system. Ventilation is produced by a fan, and is good. Explosive gas is liberated in this mine. Flameless powder is used. All shots are fired by competent shot firers. Open lights are used. The oil used for illuminating purposes is good. Coal is mined by use of electric chain machines, and hauled to shaft bottom by electric motors. Maps of this mine have been furnished this office. The mine is kept under atmospheric deposit of moisture by use of steam. Blankets and stretchers are kept at the mine. The second opening meets the requirements of the mining laws. This mine is being well taken care of at the present time. Mine rules are posted.

C. E. GASKILL, Supt.

HAYES GASKILL, Mine Foreman.

CHAS. SIDWELL,

C. D. HESNER,

Fire Bosses.

DAKOTA COAL & COKE COMPANY.

Series No. 129. *Dakota Shaft Mine*.—This mine is located 2 miles north of Fairmont, on the Paw Paw Branch of B. & O. R. R. It is a shaft 90 ft. deep, newly sunk to the Sewickley coal, and is not yet in operation. In the future the Pittsburgh seam of coal will be operated from the same shaft opening. The Pittsburgh seam of coal is 100 feet below the Sewickley coal in this section.

RAYMER FETTY, Supt. & Mine Foreman.

NEW CENTRAL COAL COMPANY.

Series No. 130. *Stafford Shaft Mine*. This mine is located 9 miles north of Fairmont, on the Paw Paw Branch of the B. & O. R. R. It is operating the Pittsburgh seam of coal on the double entry system. It is a shaft mine 256 ft. deep. Ventilation is good and is produced by a fan. A large compressed air plant has been installed. All coal is mined by compressed air machines, and hauled to shaft bottom by compressed air locomotives. This system is highly satisfactory and should be adopted

in all gaseous mines. This mine is under atmospheric deposit of moisture. The moisture being produced by steam. Flameless powder is used exclusively. Safety lamps are used exclusively. Competent shot-firers employed. Fire-bosses are on duty day and night. Considerable gas is given off in this mine. The mine is well taken care of. Blankets and stretchers are kept at the mine. Mine rules are posted.

GEORGE S. PHILIPS, Supt.

THOS. GLEASON, Mine Foreman.

JOS. GREENE,

JNO. JENNINGS,

HARRY LOCKE,

Fire Bosses.

FEDERAL COAL & COKE COMPANY.

Series No. 131. *Federal Shaft No. 1 Mine.* This mine is located ten miles north of Fairmont, on the Paw Paw Branch of the B. & O. R. R. It is 256 ft. deep and is operating the Pittsburg seam of coal on the double entry system. The ventilation is produced by a fan and is good. The coal has formerly been mined by compressed air, but the company has lately installed an electric plant. This plant is of the latest improved type, and all safety appliances so far discovered have been attached to it. This mine gives off considerable explosive gas. Flameless powder is used. All shots are fired by competent shot firers. Safety lamps are used exclusively. Mine rules are posted. The second opening meets the requirements of the mining laws. Fire-bosses are on duty day and night. Blankets and stretchers are kept at the mine. The mine is under atmospheric deposit of moisture. The moisture is produced by steam. No dust in suspension.

W. C. TUCKER, Supt.

WM. JONES, Mine Foreman.

LUKE ROGERS,

HARRY LOCKE,

JNO. STEPHENSON,

Fire Bosses.

PARKER RUN COAL & COKE COMPANY.

Series No. 132. *Parker Run Mine.* This mine is located near Rivesville, on the Monongahela River. It is a drift mine operating the Sewickley seam of coal, on the double entry system. The coal is 6 ft. thick and of a good quality. Ventilation is produced by a fan, and is good. A compressed air plant has been installed in this mine and all coal is mined by compressed air machines. Some gas is liberated in the mine. Open lights are used. The coal is hauled out by mules. A new up-to-date tiple has been erected at this mine, and the incline plane formerly used has been abandoned. Drainage is good. Powder is carried into the mine in 5 lb. cans. Oil for illuminating purposes is good. All the coal from this mine is delivered to market in boats, there being no railroad at this point. The mine is well taken care of, and is in a nice condition.

J. H. MARTIN, Supt.

W. C. MARTIN, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 133. *Murray Mine*.—This mine is located nine miles north of Fairmont on the Connellsville branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is natural and is fairly good, since many of the headings are driven through the hill, and air comes in the mine in a dozen or more places. Coal is mined by use of electric chain machines, and hauled to tipple by endless rope. Maps of this mine have been furnished this office promptly. Powder is carried into the mine in 5 lb. cans. The oil used for illuminating purposes is of a good quality. Drainage is fairly good. Blankets and stretchers are kept at the mine. Mine rules are posted. The mine is well taken care of.

H. M. SMITH, Supt.

WM. HESS, Mine Foreman

CATAWBA COAL & COKE COMPANY.

Series No. 1434. *Catawba Mine*. This mine is located on the Connellsville Branch of the B. & O. R. R. Operating the Pittsburg seam of coal on the double entry system. This mine is eight miles north of Fairmont. It is a new opening, and little coal has been mined as yet. The coal is delivered to the R. R. over an incline plane about 500 ft. in length. Ventilation is good. Drainage is good. The second opening meets the requirements of the mining laws. Powder is carried into the mine in 5 lb. cans. This mine is well taken care of.

GEO. RODAHEAVER, Supt. & Mine Foreman.

PITTSBURG STEAM COAL COMPANY.

Series No. 135. *Elizabeth Mine*.—This mine is located six miles north of Fairmont on the Connellsville Branch of the B. & O. R. R. It is operating the Pittsburg seam of coal, on the double entry system. Ventilation is produced by a furnace and is good. All coal is mined with picks, and hauled out by horses, and delivered to the railroad over an incline 180 ft. long. Powder is carried into the mines in 5 lb. cans. Oil used for illuminating purposes is good. Maps of this mine have been furnished this office. The second opening meets with the requirements of the mining laws. Mine rules are posted. Blankets and stretchers are kept at the mine. This is a new mine and is well taken care of.

JOS. BAILEY, Supt.

GRANT SWISHER, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 136. *Montana Mine*. This mine is located five miles north of Fairmont on the Connellsville Branch of the B. & O. R. R. It is operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. Drainage is good. This mine has some bad roof but is well timbered. Loose slate is taken down and loaded out, this extra handling of slate adds to cost of production. The coal is mined by electric chain machines, and hauled to bottom of slope by motors. It

is delivered to tipple by being drawn up slope, a distance of 300 ft. by use of rope. Mine rules are posted. Blankets and stretchers are kept at the mine. Oil for illuminating purposes is good. Maps of this mine have been furnished this office promptly. The mine is in good condition and well taken care of.

HARRY BAINBRIDGE, Supt.

W. H. MALONE,
WM. GASKILL,
Mine Foremen.

FAIRMONT COAL COMPANY.

Series No. 137. *Gaston Mine.*—This mine is located two miles south of Fairmont, on the M. R. division of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. This mine is kept under atmospheric deposit of moisture. Moisture is produced by steam. Drainage is good. Explosive gas is liberated in different parts of this mine. Flameless powder is used. All shots are fired by competent shot firers. The coal is mined by electric chain machines, and hauled by motors and tail rope. The second opening meets with the requirements of the mining laws. The oil found in the mine was good. Maps of this mine have been furnished this office. Mine rules are posted. Blankets and stretchers are kept at the mine. Fire-bosses are on duty day and night. The mine is kept clean, well taken care of, and is in good condition.

GEO. GASKILL, Supt.

PERRY VERNON, Mine Foreman.

ARTHUR EVANS,
PETER McLINDEN,
Fire Bosses,

FAIRMONT COAL COMPANY.

Series No. 138. *New England Mine.*—This mine is located two miles south of Fairmont, on the M. R. branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. This mine is kept under atmospheric deposit of moisture. The moisture is produced by steam. Drainage is fairly good. A shaft has lately been sunk in the interior of this mine for ventilating purposes. Water from the mine is being pumped out at this shaft. The coal in this mine is being under-cut by electric chain machines, and hauled out by motors. Mine rules are posted. The second opening meets the requirements of the mining laws. This mine liberates a small quantity of explosive gas. Fire-bosses are on duty day and night. Open lights are used. Oil for illuminating purposes is of a good quality. Blankets and stretchers are kept at the mine. The mine is well taken care of and is in good condition.

H. C. ASH, Supt.

B. G. ASH, Mine Foreman.
THOS. RIGGINS,
THOS. HAY,
D. R. THOMAS,
Fire Bosses.

FAIRMONT COAL COMPANY.

Series No. 139. *Monongah No. 6 Mine*.—located six miles south of Fairmont on the M. R. Branch of the B. & O. R. R. It is a slope mine operating the Pittsburg seam of coal. This mine has seven main entries leading into the interior of the mine. The room and pillar work is on the double entry system. Ventilation is produced by a fan, and is good. This mine is kept under atmospheric deposit of moisture. The moisture is produced by steam. Drainage is good. The second opening meets the requirements of the mining laws. Safety powder is used exclusively. All shots are fired by competent shot-firers. Fire-bosses are on duty day and night. Maps of this mine have been furnished this office promptly. A very small quantity of explosive gas is liberated. Open lights are used. Oil for illuminating purposes is good. This is a beautiful mine and is well taken care of.

DAVID VICTOR, Supt.

JAS. GASKILL, Mine Foreman.

WALTER BROWNE,

LEW LEWIS,

WM. MYRES,

Fire Bosses.

Series No. 140. *Monongah No. 2 or 5*.—This is a drift mine operating the Pittsburg seam of coal, on the double entry system. It is located six miles south of Fairmont on the M. R. Branch of the B. & O. R. R. Ventilation is produced by two fans, and is good. The second opening meets with the requirements of the mining laws. The coal from Shaver mine is hauled through this mine by use of electric motors. Mine rules are posted. Maps of this mine have been furnished this office promptly. The oil in use in the mine is of a good quality. Blankets and stretchers are kept at the mine. The mine is under atmospheric deposit of moisture. Moisture is produced by steam. This mine is well taken care of.

DAVID VICTOR, Supt.

ELZA LEVEL, Mine Foreman.

Series No. 141. *Shaver No. 1 Mine*.—This mine is located six miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. Drainage is good. Coal is mined by electric chain machines, and hauled out by motors. All steel tamping-bars and steel needles have been removed from this mine. Miners fire their own shots. Powder is carried into the mine in 5 lb. cans. Maps of the mine have been furnished this office. Mine rules are posted. Oil used for illuminating purposes is good. Blankets and stretchers are kept at the mine. This mine is well taken care of.

DAVID VICTOR, Supt.

ELZA LEVEL AND PATRICK COSTELO,

Mine Foremen.

Series No. 141a. *Shaver Mine No. 2*.—This mine is situated six miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine, operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. Drainage is good. The

coal is mined by electric chain machines. Black powder is used and miners fire their own shots. Open lights are used. Mine rules are posted. Oil found in use is fairly good. All powder is carried in the mine in 5 lb. cans. Timbering is good. Blankets and stretchers are kept at the mine. The coal from this mine is hauled through Mine No. 2 or No. 5 as now numbered. This mine is well taken care of.

DAVID VICTOR, Supt.

ELZA LEVEL, Mine Foreman.

PATRICK COSTELO, Ass't Mine Foreman.

Series No. 142. *Monongah No. 8.*—This mine is located seven miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal. Seven parallel main entries are driven into the interior of this mine. The room and pillar work is on the double entry system. Ventilation is produced by a fan and is good. This mine is kept under atmospheric deposit of moisture. Moisture is produced by use of steam. Drainage is good. A small quantity of explosive gas is liberated. Open lights are used. Flameless powder is used exclusively. All shots are fired by competent shot-firers. Fire-bosses are on duty day and night. Maps of this mine have been furnished this office promptly. Mine rules are posted. Blankets and stretchers are kept at the mine. This is one of the most beautiful mines in the state, and is well taken care of.

DAVID VICTOR, Supt.

PETER MCGRAW, Mine Foreman.

S. S. DAVIDSON,

T. P. GANDY,

W. J. DAVIS,

Fire Bosses.

Series No. 143. *Pennois Mine.*—This mine is located seven miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. All coal is mined with picks, and hauled out by mules. The second opening meets the requirements of the mining laws. Mine rules are posted. The oil used in the mine is good. Maps of this mine have been furnished this office promptly. This mine is well taken care of. All steel tamping bars have been removed from the mine, and should be taken from all mines.

RUSH MILLER, Supt.

A. K. PARSONS, Mine Foreman.

HARRY B. COAL COMPANY.

Series No. 144. *Harry No. 1 Mine.*—Is located ten miles south of Fairmont. Is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a furnace and is good. Drainage is good. All coal is mined with picks, and hauled to tipple by mules. The second opening meets the requirements of the mining laws. The coal in this mine is of a good quality, being low in sulphur at this particular point. Mine rules are posted. Blankets and stretchers are kept at the mine. Powder is carried into the mines in 5 lb. cans. Maps of this mine have been furnished this office promptly. Oil used for illuminating purposes is of a good quality.

HARRY B. CLARK, Supt.

GEO. COBURN, Mine Foreman.

Series No. 145. *Harry No. 2 Mine*.—Is located on the M. R. Branch of the B. & O. R. R. ten miles south of Fairmont. It is a drift mine operating the Pittsburg seam of coal on the double entry system. The coal is of a splendid quality at this particular point, being very low in sulphur. Ventilation is produced by a furnace and is good. Drainage is good. Powder is carried in the mine in 5 lb. cans. The oil used for illuminating purposes is good. All coal is mined by picks and hauled to the tippie by mules and horses. Maps of this mine have been furnished this office promptly. Blankets and stretchers are kept at the mine. Open lights are used. Black powder is used for blasting the coal. Miners fire their own shots. Mine rules are posted.

HARRY B. CLARK, Supt.

GEO. COBURN, Mine Foreman.

KILARM COAL & COKE COMPANY.

Series No. 146. *Kilarm No. 2 Mine*.—This mine is located ten miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. Ventilation is produced by a furnace, aid is good. Drainage is good. All coal is mined with picks and hauled to the tippie by horses and mules. Black powder is used for blasting the coal. The miners fire their own shots. Open lights are used. Oil used for illuminating purposes is fairly good. Maps of this mine are furnished this office promptly. The second opening meets with the requirements of the mining laws.

C. E. ZEEK, Supt.

W. E. SMALLWOOD, Mine Foreman.

Series No. 147. *Kilarm No. 1 Mine*.—Is located ten miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. The roof of this mine is not good, being of a soft nature and slacks when the air comes in contact with it. The mine is troubled with some bad faults that nearly cuts the coal out in some sections of the mine. Cwing to bad conditions a large section of this mine has been abandoned during this year. All coal is mined with picks, and hauled to the tippie by mules. Mine rules are posted. Maps of the mine have been furnished this office promptly. The second opening meets the requirements of the mining laws. Powder is carried into the mine in 5 lb. cans. Oil used for illuminating purposes is good.

C. E. ZEEK, Supt.

W. E. SMALLWOOD, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 148.—*Anderson Mine*.—Is located on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. Drainage is good. This is an old mine and the coal is being mined at present on the retreat. The second opening meets with the requirements of the mining laws. Mine rules are posted. Blankets and stretchers are kept at the mine. Maps of this mine have been furnished this office promptly. All powder is carried into the mines in 5 lb. cans. Oil used for illuminating purposes is good. All coal is mined with picks and

hauled out by electric motors. All steel tamping bars have been removed from the mine.

RUSH MILLER, Supt.

MILTON COBURN, Mine Foreman.

Series No. 149. *Highland Mine*.—This mine is located eight miles south of Fairmont, on the M. R. branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. The second opening meets with the requirements of the mining laws. The coal is mined by electric chain machines, and hauled out by motors. Mine rules are posted. Blankets and stretchers are kept at the mine. Black powder is used for blasting the coal. Miners fire their own shots. All steel tamping-bars have been removed from the mine. All powder is carried into the mine in 5 lb. cans. Oil used for illuminating purposes is of a good quality. This mine is kept under atmospheric deposit of moisture. Maps of the mine have been furnished this office promptly.

RUSH MILLER, Supt.

JNO. PRUNTY, Mine Foreman.

Series No. 150. *Middleton Mine*.—This mine is located eight miles south of Fairmont, on the M. R. Branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan, and is good. This mine is kept under atmospheric deposit of moisture. Moisture is produced by steam. Drainage is good. The coal is mined by use of electric chain machines. Black powder is used for blasting the coal. Coal is hauled out by motors. Miners fire their own shots. All steel tamping bars and steel needles have been removed from the mines. Powder is carried into the mines in 5 lb. cans. The second opening meets the requirements of the mining laws. Oil used for illuminating purposes is good. Mine rules are posted. Maps of this mine have been furnished this office promptly. Blankets and stretchers are kept at the mine.

RUSH MILLER, Supt.

BLAND COURTNEY, Mine Foreman.

Series No. 151. *Chiefton Mine*.—Is located nine miles south of Fairmont on the M. R. branch of the B. & O. R. R. It is a drift mine operating the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. This mine is kept under atmospheric deposit of moisture. Moisture is produced by steam. The second opening meets with the requirements of the mining laws. Drainage is good. Black powder is used for blasting the coal. Miners fire their own shots. All steel tamping-bars and steel needles have been removed from the mine. Mine rules are posted. Maps of this mine have been furnished this office promptly. All coal is mined with electric chain machines, and hauled out by motors.

RUSH MILLER, Supt.

L. E. HENDERSON, Mine Foreman.

Series No. 152. *Hutchinson Mine*.—Is located 13 miles south of Fairmont on the M. R. branch of the B. & O. R. R. It is a slope mine operated in the Pittsburg seam of coal on the double entry system. Ventilation is produced by a fan and is good. This mine is kept under atmospheric deposit of moisture. Moisture is produced by steam. Drainage is good. Coal is mined by use of electric chain machines, and hauled to bottom of slope by horses and endless rope. It is delivered to tipple by

being drawn up, a slope 240 feet, by means of rope. This is a nice mine and is well taken care of. Mine rules are posted. All shots are fired by competent shot-firers. Blankets and stretchers are kept at the mine. All steel tamping-bars and steel needles have been removed from the mines. All powder is carried into the mine in 5 lb. cans. The oil used for illuminating purposes is good. Maps of the mine have been furnished this office promptly.

BROOKS FLEMING, JR., Supt.

THOS. BURLUCK, Mine Foreman.

THE VIRGINIA AND PITTSBURG COAL & COKE COMPANY.

Series No. 153. *Kingmont Mine*.—Is located six miles east of Fairmont, on the B. & O. R. R. It is a drift mine operated in the Pittsburg seam of coal, on the double entry system. Ventilation is produced by a fan and is good. This mine has a capacity of 2000 tons per day. All coal is mined with picks and is produced much cheaper than where machines are used in mines of same capacity. The coal is delivered to the tipple by means of tail rope. All powder is carried into the mines in 5 lb. cans. Oil used is of a fairly good quality. Maps have been furnished this office. This is a beautiful mine and is well taken care of. The coal is of a splendid quality.

R. M. HITE, Supt. JOHN BROWN and WM. JARRETT, Mine Foreman.

SECOND DISTRICT.

GENERAL SUMMARY OF THE SECOND MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYEES.								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals.	Sum Totals	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Harrison	67	13	1,000	1,143	305	834	3,282	634		634	3,916	3,005,689	275
Lewis	1			35	8	7	50	5		5	55	13,780	
Upshur	4	2	50	35	8	10	103	12		12	115	60,589	
Totals	72	15	1,050	1,213	321	851	3,435	651		651	4,086	3,080,058	275

FRANK E. PARSONS,
Inspector Second District.

OFFICE OF SECOND DISTRICT MINE INSPECTOR.

CLARKSBURG, W. VA., July 1, 1909.

HON. JOHN LAING.

Chief of the Department of Mines,
Charleston, West Virginia.

SIR:—In compliance with the law which created the Department of Mines of the State of West Virginia, it is my duty and also my pleasure to submit to you my Annual Report for the year ending June 30, 1909, as Inspector for the Second Mining District of the State. This District is composed of the following counties, viz.: Doddridge, Lewis, Harrison, Ritchie, Upshur and Webster.

The counties are centrally located in West Virginia and are underlaid with coal seams which vary in thickness, and are of great commercial value of steam, domestic and coking purposes. The principal one being the famous Pittsburg Seam. In this seam alone there are sixty-two commercial mines operating in this District (this includes the new mine reported as the Marion Mine, which is not yet shipping coal, but does not include thirteen other openings which have been abandoned, connected underground, and are working in connection with other mines, etc.) There are also five operations in the Redstone Seam, and one operation in the Masontown Seam, making a total of sixty-eight commercial coal mines

in the District, sixty-two of which are located in Harrison county, five in Upshur county and one in Lewis county. In addition to this there is one small graphite mine located in Ritchie county which is worked in a very primitive manner and was not visited by the Inspector during the past year.

The inside development of quite a number of the mines in this District are very large, as they have been in operation for several years, and require from two to four days to make a satisfactory inspection.

I am pleased to report that there has been a very material improvement made during the past year as to the general safety, drainage and sanitary condition of a large number of the mines operating in this District. These improvements were not all made at the suggestion of the Inspector or by his recommendations, but in a number of cases were made voluntarily by the operating companies, notwithstanding the fact that the coal business has been very inactive and discouraging during the past year.

In my judgment the most dangerous element found in the mines in this District, is fine, dry coal dust, and I have used the most rigorous insistence that all mines and sections of mines which are inclined to be dry and dusty be kept thoroughly wet by a systematic watering of same, and in most cases, I have had the hearty co-operation of the operators, and in nearly all of the larger mines in the District, an up-to-date system of watering with hose has been installed, and when properly used, wets the dust in a most satisfactory manner.

Another latent danger found in several of the mines of this District, is small quantities of explosive gas liberating from the working faces in sections of the mine. It has been my experience that a large percentage of the disasters caused by explosive gas in coal mines, have occurred in mines of this character where the gas was not considered to be liberating in dangerous quantities, and for this reason was not receiving the care and attention that is given to mines that are considered dangerous from this standpoint, and without the knowledge of anyone, a feeder of sufficient magnitude to cause an accumulation of gas, would be liberated in a section of a mine, which by reason of elevation and lack of proper ventilation, etc., was favorable, and the gas would accumulate and a disaster would occur with its ignition. Realizing the dangers from this standpoint, I have not missed an opportunity to impress on the miners and mine officials of all such mines, the importance of sufficient ventilation to be maintained at the working faces constantly, and that all such places be examined by a safety lamp in the hands of a skilled man, before the men are permitted to enter therein for the purpose of working. Of course, the law does not prescribe that all these precautions be taken in such mines, neither does the law of health prescribe to the sick man his diet, yet the prudent physician does, and all mine officials connected with such coal mines should be prudent men and at all times exercise the best care, skill and judgment possible.

I have had but very little trouble in the past year to have recommendations complied with as to all matters of importance concerning the general safety and sanitary conditions in the mines of this District. I have

however, met with some obstinacy and resistance, which happily, I have been able to overcome without having to resort to legal proceedings to have the law complied with.

The ventilation, as a rule, of the mines in this District, is good. In a majority of the larger mines, the stoppings which separate inlet from outlet currents of air along all important headings, are constructed of masonry, being either concrete or brick, and the overcasts are constructed of the same material, which makes them non-combustible and very serviceable.

The clerical duties connected with the office of the Inspector of this District, by reason of a large official correspondence with the miners and operators in the District, and by reason of numerous reports, etc., required by law are very onerous with the facilities at hand, in connection with his other duties, and I think better results would be obtained if ample facilities be offered by law to the District Inspectors for proper care of maps, records and correspondence, which is of great importance in connection with the work of an Inspector.

Another matter of still more vital importance in connection with the mining industry of this State, and which should attract the attention of our law making bodies at the coming session of the Legislature, is the enactment of a law prescribing conditions of protection to mine workings and coal properties which are being penetrated by oil and gas wells in this State. This law should be so framed that it will not be inimical to either interest if possible to do so. Other than the matters mentioned above, with a full compliance of the present law, the Inspector of this District has no particular reason to complain.

But few of the mines in this District have been running on full time during the past year, owing to the general depression of business, and for this reason, both miners and mine operators have suffered great financial loss.

Reports of all accidents happening at the mines in this District, have been forwarded to your office as far as I have any knowledge of, and you will notice that the most prolific source of accidents is the falls of roof, the character of which you will find described in connection with the description of the mines in this District.

In conclusion, I desire to thank the miners, mine officials and mine operators in this District, for their co-operation with the Department in having the law complied with, and for the many courtesies and kindnesses which I have personally received at their hands, and I desire to assure them of my full appreciation of the same and that they have my best wishes for their future prosperity.

I also desire to extend to yourself and Mr. Paul, as heads of the Department, sincere thanks for assistance and advice promptly rendered.

Very truly,

FRANK E. PARSONS,
Inspector Second District.

CONDITION OF THE MINES IN THE SECOND DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 210 indicates the second district and number 10 mine.

HARRISON COUNTY.

FAIRMONT COAL COMPANY.

Series No. 201. *Enterprise Mine, Pittsburg Seam, Slope.*—This mine is located nineteen miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system and is ventilated by a 20 ft. Capell fan. The ventilating current is split in the interior of the mine to the different working sections, and has always been found ample to make the mine first-class as to sanitary conditions. The drainage is good. A small quantity of marsh gas was found to be liberating in places on dates of some of my visits, but this gas was well being taken care of by means of concrete stoppings on the mains, and of good serviceable stoppings on the Butt or Room headings. Timbering is being carefully looked after and this mine fully complies with the requirements of the State Mine Laws as to all matters of importance. The capacity of this mine with a full force of men would probably reach from 1800 to 2000 tons daily. If the present tippie, which is only temporary, is of sufficient capacity to take care of this output, as the Company had the misfortune during the past year to have their tippie, which was very large and up-to-date destroyed by fire, and as yet have not rebuilt permanently. The coal is undercut and hauled to the tippie by electricity.

H. H. WATSON, Supt.

THOMAS SMITH, Mine Foreman.

H. C. ICE, Asst. Supt.

Series No. 202. *Melrose Mine, Pittsburg Seam, Drift.*—This mine is located 18½ miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad, and has not been in operation during the past year. I have understood that this coal will be mined from the Enterprise and Viropa Mines. However, I am not sure, as I did not get this information officially.

H. H. WATSON, Supt.

Series No. 203. *Viropa Mine, Pittsburg Seam, Drift.*—This mine is located 18 miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio railroad. The ventilation is produced by a 10-ft. Connellsville fan with electric connection, the efficiency of which is over 100,000 cubic feet of air per minute, which is fairly well distributed throughout the entire development of the mine, making sanitary conditions good. The stoppings along the Main entries are constructed of concrete and stoppings on Butt or Room entries are built of tongued and

grooved lumber and are as a rule, very serviceable. The coal is undercut by electric machines and is hauled to the tippie by electric motors. The overlying strata is of fire clay and requires careful timbering and watching, which is well looked after by the officials in charge of the physical development of the mine. The drainage is only fair in some sections of the mine by reason of local dips, etc., but a great deal of ditching has been done during the past year and great improvements have been made along this line. No gas is found and the dust is being carefully watched and watered by means of a hose and has always been found in a satisfactory condition. This mine with the present equipment and development is capable of producing from 1200 to 1500 tons daily, and State Mine Laws are well observed.

H. H. WATSON, Supt.

FLOYD GANDY, Mine Foreman.

C. F. ICE, Asst. Supt.

Series No. 204. *Riverdale Mine, Pittsburg Seam, Drift.*—This mine is located 17½ miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 7 ft. disc fan of the Stine type, has always been found ample to make sanitary conditions to fully comply with the State Mine Laws. By reason of local dips and local conditions in the mine, drainage is only fair, and a great deal of trouble is experienced by the Company in handling the water, by means of ditching, bailing and pumping. The top or overlying strata is fire clay which requires careful watching and timbering. Top coal however, is maintained in a large measure throughout this mine. No gas is found. Dust well taken care of on date of visits. The coal is undercut by electric machines of the chain type and hauled to the drift mine by means of electric motor and from thence it is hoisted to the tippie by a mechanical arrangement locally known as a chain haulage. This mine with the present equipment and development is capable of producing from 600 to 700 tons daily output. Mine laws are well observed in all matters of importance.

H. H. WATSON, Supt.

SAM LEWIS and WM. WALLACE,

HARRY HIGGINBOTHAM, Asst. Supt.

Mine Foremen.

VIRGINIA-MARYLAND COAL CORPORATION.

Series No. 205. *Willard No. 1, Pittsburg Seam, Drift.*—This mine is located 17½ miles north of Clarksburg, West Virginia, on Mud Lick Run, on a branch off of the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system and the ventilation at the present time is produced by a 6 ft. disc fan of the Stine type, and has always been found fairly sanitary throughout the development, but the development is fast outgrowing the present ventilating equipment, and on date of last visit the management was found engaged in grading a location for a new fan of sufficient dimensions to ventilate future development. The old fan will be used for their No. 2 Mine, which is much smaller in reference to area of development. The coal is undercut by

compressed air machines of the puncher type, and at the present time is being hauled to the tippie by means of mules and horses, but plans are being made to install a mechanical haulage. The drainage in nearly all the working places was found to be good, but some standing water was found along the Main Haulway on the inside. This water will have to be handled for the present by means of a pump. The top or overlying strata is fire clay and requires careful timbering. Top coal, however, is maintained along all the haulways and in most of the room workings. No gas has ever been found in this mine. On date of last visit, the Inspector was of the opinion that the oil being used did not fully comply with the State Mine Laws. Their attention was called to this matter and the management agreed with the Inspector that the oil being sold and used was in excess of smoke, and the matter was talked over with the Store Manager who said that he would immediately remedy this matter by purchasing oil of a superior grade and would cease selling this oil, which however, had been sold to him under an absolute guarantee. Otherwise this mine fully complies with the State Mine Laws. With the present development and with a full force of men and present equipment, this mine is capable of producing 400 tons daily output.

A. L. WHITE, Supt.

ELI MORRIS, Mine Foreman.

Series No. 206. *Willard No. 2, Pittsburg Seam, Drift.*—This mine is located $17\frac{1}{2}$ miles north of Clarksburg, West Virginia, on Mud Lick Run, on a branch off of the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and ventilated by means of an open grate. The ventilation has always been found ample to comply with the State Mine Laws. The drainage is bad on account of the workings going to the dip. The water is handled by means of pumps and by bailing. The coal is undercut by picks and by compressed air machines of the puncher type. The overlying strata is fire clay but top coal is maintained throughout the entire development. Coal is hauled by mules and horses and dumped over the same tippie as No. 1. State Mine Laws are being observed. With the present development and equipment and a full force of men, this mine is capable of producing 100 tons daily.

A. L. WHITE, Supt.

ELI MORRIS, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 207. *Ehlen No. 3, Pittsburg Seam, Drift.*—This mine is located $15\frac{1}{2}$ miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 10 ft. Crawford & McCrimmon fan, which has recently been changed from direct steam connection to electric connection, and conducted throughout the interior of the mine by means of concrete and wooden stoppings, has always been found ample to fully comply with State Mine Laws in all working sections. A small quantity of explosive gas was found liberating in one section of this mine on one of my former visits. This was well taken care of however, by means of serviceable stoppings and sufficient air. Coal

is undercut by electric machines of the chain type and hauled through a portion of the No. 1 Mine and dumped over the same tippie in conjunction with the output of No. 1 Mine. The top is of fire clay and requires careful watching and timbering, which is being looked after. The water is handled by pumps and fairly well taken care of. An electric haulage motor has recently been installed, which hauls the output of this mine as well as that of No. 1, to the drift mouth at No. 1, and from thence it is hauled to the tippie up an engine plane by means of head rope. State Mine Laws are being well observed and the condition of this mine on date of last visit was found to be very satisfactory. The present development and equipment of this mine is capable of producing 400 tons daily. THOMAS JARRETT, Supt. CLAUDE ADDISON, Mine Foreman. CHARLES WATKINS, Asst. Supt.

Series No. 208. *Ehlen No. 1, Pittsburg Seam, Drift.*—This mine is located 15½ miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and ventilation, which is produced by a 12 ft. Crawford & McCrimmon fan, is good throughout the development. Small quantities of explosive gas was found during the past year liberating on some of my former visits in some sections of this mine, but was being well taken care of by means of serviceable stoppings and sufficient air. On date of last visit however, no gas was found. Water is handled by pumps and found in good condition. The top is very bad, in places where the top coal is removed, which requires constant attention and careful timbering. Coal is undercut by electric machines and with pick, and hauled to the drift mouth by electric motor and is transported to the tippie in the same manner as described in No. 3. The State Mine Laws are being well observed. A full force of men with the present development and equipment could produce 500 tons daily. THOS. JARRETT, Supt. CLAUDE ADDISON, Mine Foreman. CHARLES WATKINS, Asst. Supt.

Series No. 209. *Solon Mine, Pittsburg Seam—Drift.*—This mine is located about 15 miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system and the ventilation which is produced by a 16 ft. curved blade fan, with direct steam connection, has always been found ample to fully comply with the State Mine Laws. On one of my visits during the past year, explosive gas was found liberating in such quantities as to make it necessary to recommend to the operating company that a man qualified under the Law, as Fire Boss, be put on and that a record be kept as per the requirements of the State Mine Laws. This was done at once. On date of last visit, while some gas was found to be liberating, it was in very much smaller quantities and was being well taken care of, as per recommendation. Coal is undercut by electric machines of the chain type, and by pick, and hauled to the junction on the inside with mules and horses, and from thence to the tippie by means of endless rope. The drainage in most of the working sections is good. There is one section how-

ever, in which the drainage is very bad. The top is fire clay and is very dangerous when all the coal is removed. The top coal however, is maintained in most places where possible to do so. State Mine Laws are being well observed. With a full force of men and with the present development and equipment, this mine is capable of producing from 700 to 800 tons daily output.

THOS. JARRETT, Supt.

OLVER BUSH, Mine Foreman.

CHARLES WATKNS, Asst. Supt.

Series No. 210. *Harbert Mine or Gypsy No. 7, Pittsburg Seam, Drift.*—This mine is located $12\frac{1}{2}$ miles north of Clarksburg, West Virginia, on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 7 ft. Stine fan with electric connection, is ample and fully complies with the State Mine Laws. The overlying strata is fire clay and draw slate, and requires careful attention as to timbering when the top coal is removed and it is exposed. Drainage on date of last visit needed some attention in some sections. This mine formerly liberated small quantities of gas, but during the past year no gas has been found. The coal is undercut with electric machines of chain type and is hauled to the junction on the inside of Gypsy Mine (these two mines being connected under ground), from thence it is hauled by endless rope to Gypsy tippie, where it is dumped into the Railroad car. State Mine Laws are being fully observed. With a full force of men and with the present equipment and development, this mine is capable of producing 500 tons daily.

C. F. ICE, Supt.

BERT RUSSELL, Mine Foreman.

L. W. SMITH, Supt.

F. E. GIROD, Asst. Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 211. *Gypsy Mine—Pittsburg Seam—drift.*—This mine is located 12 miles north of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system. The ventilation which is produced by a 20 ft. Capell fan with direct steam connection, is good throughout the development. Small quantities of explosive gas liberate in some sections but is well taken care of by means of serviceable stoppings and sufficient air. By reason of local conditions, drainage is only fair. Especially is this the case during the rainy season, the water being handled exclusively by pumps, of which there is quite a large number found on the inside, of different types, all of which are being driven by electricity. The coal is undercut and hauled to the junction by electric equipments and from there it is conveyed to the tippie by means of endless rope. The top is of a slippery, potty nature when exposed, but, however, top coal is maintained along all haulways and in all working places where possible to do so. With the present development and equipment and with a full force of men, this mine is capable of producing 2500 tons daily. The State Mine Laws are being well observed at this mine.

BERT RUSSELL, Mine Foreman.

C. F. ICE, Supt.

LUTHER KING, Asst. Mine Foreman.

L. W. SMITH, Supt.

Series No. 212. *Maulsby Mine—Pittsburg Seam—drift.*—This mine is located 11 miles north of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and is connected under ground with the Gypsy Mine. No part of this development however, has been in operation during the past year. I am informed by officials of the Company that when put in operation this mine will be worked in conjunction with the Gypsy mine.

C. F. ICE, Supt.

L. W. SMITH, Supt.

Series No. 213. *Meadowbrook Mine No. 1—Pittsburg Seam—drift.*—This mine is located nine miles north of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system. The ventilation (which is produced by two fans, one of which is a disc fan of the Stine type, being 7 ft. in diameter and the other being a Crawford & McCrimmon, 12 ft. in diameter) is good throughout the development. The top or overlying strata is of fire clay nature and is very brittle when exposed to the air, requiring exceedingly careful timbering, and is receiving good attention by the management on the ground. No gas found. Drainage only fair on account of local conditions along Haulways, but all or nearly all of the working places are well drained. The coal is undercut and hauled by electricity. The State Mine Laws are being well observed at this mine. With the present equipment and development and with a full force of men, this mine is capable of producing 600 tons daily.

C. D. POWELL, Mine Foreman.

A. C. POLING, Supt.

GEORGE HAMBRICK, Mine Foreman.

Series No. 213a. *Meadowbrook No. 2—Pittsburg Seam—drift.*—This mine is located nine miles north of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced partly by the 7 ft. Stine fan mentioned in the description of No. 1 Mine, and a portion of which is ventilated naturally, is good throughout the development, conditions being exceedingly favorable for natural ventilation in that section of the mine which is ventilated naturally.. No gas is found. Top is rather bad and requires careful timbering when exposed, but top coal however, is maintained throughout the development where possible to do so. Coal is undercut and hauled with electrical equipment, (with the exception of a few pick places) to the mouth of drift No. 1 through a portion of the No. 1 Mine. Drainage is fairly good and the Mine Laws are being well

observed. With the present equipment and development and with a full force of men, this mine is capable of producing 200 tons daily.

C. D. POWELL, Mine Foreman.

A. C. POLING, Supt.

GEORGE HAMBRICK, Mine Foreman.

Series No. 214. *Girard No. 1—Pittsburg Seam—drift.*—This mine is located nine miles north of Clarksburg, W. Va., on a branch off of the

M. R. Division of the Baltimore & Ohio Railroad, on Simpson Creek. It is opened up on the double entry system and the ventilation which is produced by a 7 ft. Stine fan, driven by steam engine, with belt connection, has always been found ample to fully comply with the State Mine Laws. The top is exceedingly good for the Pittsburg Seam. No gas has ever been found. The drainage by reason of local conditions, is bad in some sections of this development, but these sections where the water is found standing, has not been in operation during the past year. The present working sections of the mine are well drained. The coal is undercut with electric machines of the chain cutter type and hauled to the tippie by means of electric motor. State Mine Laws are well observed. With the present equipment and development and with a full force of men, this mine is capable of producing from 1,000 to 1,200 tons daily.

E. P. McOLVIN, Mine Foreman.

P. B. ROBINSON, Supt.

Series No. 215. *No. 2 at Girard No. 1—Pittsburg Seam—drift.*—This mine is located 9 miles North of Clarksburg, W. Va., on the branch spoken of in describing No. 1 opening. It is opened up on the double entry system and the ventilation which is produced by a 10 ft. Crawford & McCrimmon fan, electrically driven, is only fair on account of the improper construction of the fan house, and the power of the motor which drives the fan being inadequate to propel the fan at proper speed for full efficiency. However, the ventilation is ample for the present development to comply with the State Mine Laws. Coal is undercut by electric machines and hauled by the same motor described in connection with No. 1 Mine, through a section of the No. 1 Mine, to the same tippie and dumped in conjunction with the output of the No. 1 Mine. The top is good, top coal being maintained throughout the development where it is possible to do so. Drainage is good throughout the development with a few exceptions, and in this section a pump is installed which is ample to take care of all the water. State Mine Laws are being observed. No gas has ever been found. With a full force of men and with the present equipment and development, this mine would be capable of producing 400 tons daily.

E. P. McOLVIN, Mine Foreman.

P. B. ROBINSON, Supt.

Series No. 216. *Globe Mine—Pittsburg Seam—drift-incline.*—This mine is located 6½ miles North of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is developed on the double entry system and the ventilation which is produced by a 7 ft. Stine fan, has always been found good throughout the development. No gas has ever been found. The top when exposed, is draw slate, which requires careful timbering, but the greatest care has been exercised in maintaining top coal along all the Main haulways. Drainage in working sections is good. Coal is undercut by electric machines and also by pick, and hauled to the mouth of the drift by electric motor where it is lowered by gravity to the tippie. The State Mine Laws are being well observed. With a full force of men and with the present equipment and development, this mine is capable of producing 600 tons daily.

P. J. McANDREWS,

Supt. & Mine Foreman.

Series No. 217. *Farnum Mine—Pittsburg Seam—drift.* This mine is located about 5 miles north of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad and has not been in operation during the past year, and I am informed by officials of the Company that when this mine is put in operation, it will be connected underground with the Globe mine, and coal will be hauled to the mouth of Globe drift and lowered to the tippie in the same manner as described, in Globe Mine.

P. J. McANDREWS,
Supt. and Mine Foreman.

Series No. 218. *Glen Falls Mine—Pittsburg Seam—drift.*—This mine is located about 5 miles North of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and was developed for several years, but for the past year has not been in operation.

LUKE MURRAY, Supt.

Series No. 219. *Dunham Mine—Pittsburg Seam, drift.*—This mine is located 5 miles North of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system and ventilation which is produced by a 12 foot curved blade fan, with electric connection, is good throughout the development. The roof is fairly good, but in places where all the coal is removed, it requires careful attention as to timbering. No gas has been found liberating in this mine during the past year. Dust is carefully looked after as to watering. Drainage only fair in some sections, but the management was planning to make improvements along this line on date of last visit. Coal is undercut by electric machines of chain cutter type and hauled to the drift mouth by electric motor. Mine Laws are well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1000 tons daily.

WALTER MILLER, Mine Foreman.

LUKE MURRAY, Supt.

CLARKSBURG FUEL COMPANY.

Series No. 220. *Fall Run Mine—Pittsburg Seam—drift.* This mine is located .3 miles North of Clarksburg, W. Va., on a branch off of the M. R. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by a 7 ft. Stine fan with electric connection, has always been found ample to fully comply with the State Mine Laws. The top or overlying strata is of draw slate of a slaggy nature, and requires very careful attention as to timbering in some sections. In other sections however, it is exceedingly good. Top coal is maintained in several of the most dangerous sections. Drainage is good in the right hand section while in some places on the left hand it is rather bad. No gas found during the past year. The coal is undercut by electric machines of the chain type and hauled to the tippie by electric motor. With a full force of men and with the present development and

equipments, this mine is capable of producing 1200 tons daily. State Mine Laws are being well observed.

S. L. SHRADER, Mine Foreman.

LUKE MURRAY, Supt.

CORONA COAL & COKE COMPANY.

Series No. 221. *Harold Mine—Pittsburg Seam—drift.* This mine is located two miles North of Clarksburg, W. Va., on the M. R. Division of the Baltimore & Ohio Railroad. The ventilation which is produced by a 5 ft. Stine fan with electric connection, is good in some sections of the mine and in other sections it is only fair, by reason of defective stoppings and for other reasons, the most important part of which is, the dimensions of the fan. No gas is found in this mine. Some dust was found on date of last visit and recommendations were left as to this dust. The top is draw slate and only fair in sections of the mine. In other sections by reason of numerous clay veins, the top is bad and requires very careful attention as to timbering, while in some sections the top is exceedingly good. The coal is undercut by electric machines and hauled to drift mouth by electric motor where it is lowered to the tippie by traction plane. State Mine Laws are being reasonably well observed, but recommendations were left by the Inspector for a full compliance, in some particulars. With a full force of men and with the present development and equipment, this mine is capable of producing 500 tons daily.

ED CLINGAN, Supt. and Mine Foreman.

CLARKSBURG FUEL COMPANY.

Series No. 222. *Pinnickinnick Mine—Pittsburg Seam—drift.*—This mine is located one mile East of Clarksburg, W. Va., on the Parkersburg branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by a 16 ft. Helmick fan, is good throughout the development. No gas has ever been found in the workings during the past year. The top or overlying strata is of draw slate and requires careful attention as to timbering in the room work. Along the Main entries where top coal is not maintained, the draw slate has been taken down and removed from the mine, leaving a covering of what is known as the checkered rock, which is exceedingly good. The water is handled in the greater part of the development by means of pumps and the Company has installed a pumping Station composed of two 1000 gallon per minute Centrifugal pumps electrically driven. These pumps are located centrally where the Company has two exceedingly large pumps. To the location of these pumps, the water on the interior of the larger sections of the mine is conducted by means of ditches and other pumps. From thence it is thrown to the outside through bore holes by means of the two pumps before mentioned. The coal has been undercut during the past year exclusively by electric machines (formerly compressed air machines were also used in connection). It is hauled to the junction on the inside by electric motors and from thence it is hauled to

the drift mouth and up the engine plane by means of endless rope and grip cars. The State Mine Laws are well observed at this mine. With a full force of men and with the present development and equipment, this mine is capable of producing 2600 tons daily.

THOS. POLLOCK, Mine Foreman.

J. H. NUZUM, Supt.

LOUIS DORSEY, Asst. Mine Foreman.

CENTRAL FAIRMONT COAL COMPANY.

Series No. 223. *Moore Mine—Pittsburg Seam—drift.*—This mine is located one mile East of Clarksburg, W. Va., on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced naturally, and by furnace, is only fair in that section of the mine which depends on the furnace. The section which is ventilated naturally, by reason of local conditions favorable to natural ventilation, is good throughout that portion of the development. The top or overlying strata is draw slate when all the coal is removed, and requires very careful attention as to timbering. Top coal however, is maintained in quite a large number of the working places. In these places when properly timbered, conditions are good as to roof. Drainage by reason of local dips, etc., is only fair. No gas found. State Mine Laws are observed. The coal is undercut by picks and hauled to the tippie by means of mules and horses. With a full force of men and with the present development and equipment, this mine is capable of producing 400 to 500 tons daily.

A. G. HILBURT, Mine Foreman.

FRED HOWARD, Supt.

VINCENT COAL COMPANY.

Series No. 224. *Grasselli Mine—Pittsburg Seam—drift incline.*—This mine is located about one mile East of Clarksburg, W. Va., on the Grasselli Branch off of the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by furnace, on dates of last visit was only fair in some sections of the mine, by reason of needed stoppings, etc. Recommendations were made, and I am informed they were immediately complied with, which remedied this matter. Top coal is maintained where possible to do so throughout the entire development. Where the top is broken, and the overlying strata is exposed, it requires very careful attention as to timbering. Drainage in a large section of this mine is rather bad on account of local conditions. The coal is undercut by pick and hauled to the top of the incline by means of mules and horses and from thence it is lowered by traction plane to the tippie. The State Mine Laws are well observed in all matters of importance. With the present development and equipment and a full force of men, this mine is capable of producing 400 tons daily.

GRANT WHITE, Mine Foreman.

VINCENT GOCKE, Supt.

CLARKSBURG FUEL COMPANY.

Series No. 225. *Despard Mine—Pittsburg Seam—drift.*—This mine is located about one mile East of Clarksburg, W. Va., on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system. The ventilation which is produced by a 8 ft. Stine fan, is exceedingly good in all working sections of this mine. No gas found. Top is draw slate when all the coal is removed, but in the working section of the mine they are maintaining top coal throughout. The operating Company has recently installed electric equipment for undercutting and hauling this coal, but as yet, they have not installed the haulage motors. The coal, however, is undercut by the electric machines of the chain type and at present is hauled to the tippie by means of horses and mules and from thence it is hoisted up on the tippie by means of a mechanical arrangement where it is dumped into the car. The State Mine Laws are well observed. Drainage is exceedingly good in a large portion of the mine and in the other portions, well taken care of by pumps. With a full force of men and with the present development and equipment, this mine is capable of producing 500 tons daily.

GEORGE BROOKS, Mine Foreman.

A. W. RAPP, Supt.

FAIRMONT COAL COMPANY.

Series No. 226. *Columbia Mine—Pittsburg Seam—drift.*—This mine is located two miles East of Clarksburg, W. Va., on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 16 ft. curved blade fan with direct steam connection, has always been found ample to fully comply with the State Mine Law throughout the entire development. Small quantities of explosive gas liberates at the faces in some of the advanced workings, but is well taken care of by means of serviceable stoppings and sufficient air. The top or overlying strata is draw slate when all the coal is removed and along a number of the principal haulways the draw slate has been taken down and removed from the mine, leaving an exposed surface known as the checkered rock, which is very good. In some sections however, in the room workings especially, the nature of the top is different, requiring very careful attention as to timbering. The water in this mine is handled by means of pumps and natural drainage and in all working sections is being well taken care of. The State Mine Laws are being observed in all matters of importance. The coal is undercut by compressed air machines of the puncher type and is hauled to the junction on the inside of the mine by horses and mules and from thence by means of head and tail ropes, to the drift mouth and up engine plane to the tippie where it is dumped in the Railroad car. With a full force of men and with the present development and equipment, this mine is capable of producing 1500 tons daily.

MIKE ROONEY, Mine Foreman.

A. W. RAPP, Supt.

Series No. 227, *Ocean Mine—Pittsburg Seam—drift.* This mine is located three miles East of Clarksburg, W. Va., on the Parkersburg Branch

of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 15 ft. curved blade fan, with direct steam connection, is good throughout the entire development. The top in this mine changes as to character in the several sections, portions of which are exceedingly good while other portions would be considered fair and still other portions would be considered exceedingly bad, when all the coal is removed, and leaves the overlying strata exposed. Timbering however, is carefully looked after. The development in the section of the mine known as the "New Hill" is going to the dip very rapidly but very little water is encountered, and in sections where water would be expected it is found to be dry. This condition I presume is caused by the impervious nature of the overlying strata in this section of the mine. The drainage in that section of the mine known as the "Old Hill" is only fair. Standing water is found in the right hand side of the working off of the Main entry going to this section of the mine. The top in this section requires careful attention as to timbering. No gas has been found during the past year. The coal is undercut by means of pick and compressed air machines of the puncher type and it is hauled to the tippie from that section of the mine known as the "New Hill" by means of head and tail rope, and hauled from that section of the mine known as the "Old Hill" by means of mules and horses to the drift mouth where it is taken to the tippie in connection with the output from the "New Hill" by means of the ropes before mentioned. The State Mine Laws are being well observed. With a full force of men and with the present development and equipment, these mines are capable of producing 1800 tons daily.

U. B. BLAKESMITH,

K. D. BAILEY, Supt.

C. D. POWELL,

Mine Foremen

PITTSBURG & FAIRMONT FUEL COMPANY.

Series No. 223. *Perry Mine No. 1—Pittsburg Seam—drift.* This mine is located three miles West of Clarksburg, W. Va., on a branch off of the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 16 ft. curved blade fan with direct steam connection has always been found ample to fully comply with the State Mine Laws. Small quantities of explosive gas is liberated in some of the advanced workings of this mine, but is being well taken care of by means of serviceable stoppings constructed of concrete along mains and good serviceable wooden stoppings along the room entries. The top or overlying strata in this mine is very bad when all the coal is removed and requires the most careful attention as to timbering. Top coal is maintained throughout the development when possible to do so. The coal is undercut by picks and electric machines of the chain type and is hauled to the tippie by electric motors. The drainage in this mine formerly was bad in sections, but recently the management has gone to a big expense in the way of ditching by recommendations made, which has greatly improved the condition of the interior as to drainage. The State Mine Laws are being well ob-

served. With a full force of men and with the present development and equipment, this mine is capable of producing 1000 tons daily.

ARTHUR MORGAN,

L. W. SMITH,

A. L. HORD,

ARTHUR MORGAN,

Mine Foremen.

Superintendents.

PITTSBURG & FAIRMONT FUEL COMPANY.

Series No. 229. *Perry Mine No. 2.—Pittsburg Seam.—drift.*—This mine is located three miles West of Clarksburg, W. Va., on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 12 ft. Crawford & McCrimmon fan, with direct steam connection, is good throughout that portion of the mine which has been in operation during the past year. This development being rather large, a large portion of it has not been in operation during the past year and only sufficient ventilation has been maintained in this section of the mine to prevent accumulation of dangerous or noxious gases. The roof is very much the same nature as that described in No. 1 Mine, requiring the most careful attention as to timbering in places where all the coal has been removed. Small quantities of explosive gas has liberated formerly in sections of this mine, but during the past year none has been discovered in that part which is now working. The drainage in sections of this mine is rather bad by reason of local conditions. The water however, is taken care of by means of pumps in such a manner as to make it sanitary in the working places. The coal is undercut by electric machines and with picks, and hauled to the tipple by means of electric motors, this being a twin tipple, spans the ravine, separating this drift from No. 1 drift. The State Mine Laws are being well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1500 tons daily.

ARTHUR MORGAN,

L. W. SMITH,

A. L. HORD,

ARTHUR MORGAN,

Mine Foremen.

Supts.

PITTSBURG & FAIRMONT FUEL COMPANY.

Series No. 230. *Perry Coaling Station Mine—Pittsburg Seam—drift incline.* This mine is located $2\frac{1}{2}$ miles West of Clarksburg, W. Va., on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 10 ft. Charleston fan of the Disc Type, with electric connection, has always been found ample to fully comply with the State Mine Laws. The top or overlying strata is very bad in sections of this mine, when all the coal is removed, but top coal however is maintained throughout the development where possible to do so, and timbering is carefully looked after. Some gas was formerly found in this mine, but was well cared for by means of serviceable concrete stoppings in that section of the mine where gas was found liberating. Drainage is only fair, water being handled by pumps and in some sections by ditching. The coal is

undercut by electric machines of the chain type, and hauled to the drift mouth by mules and horses and lowered to the tibble by a traction plane. The State Mine Laws were well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1200 tons daily.

ARTHUR MORGAN,
A. L. HORD,
Mine Foremen.

L. W. SMITH,
ARTHUR MORGAN,
Supts.

MEADOWBROOK COAL & COKE COMPANY.

Series No. 231. *Erie Mine—Pittsburg Seam—drift.*—This mine is located six miles North of Clarksburg, W. Va., on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 12 ft. Crawford & McCrimmon fan, is fairly good. There is room for improvement however, as to ventilation, and recommendations were made by the Inspector on date of last visit, which would in his judgment, greatly improve the ventilation in that section of the mine where most needed, (viz: South side). Top or overlying strata is only fair when all the coal is removed and requires care as to timbering. No gas is found. The coal is undercut by machines of both the electric and compressed air type. It is hauled to the drift mouth by means of electric motor and from thence it is hoisted up the engine plane to the tibble by head rope. The State Mine Laws are observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1000 tons daily.

S. S. LYTTON, Mine Foreman.

L. L. CRAWFORD,
EARL GARRETT,
Supts.

HARRISON COUNTY COAL COMPANY,
Formerly the W. B. Gunton Coal Co.

Series No. 232. *Overholt Mine—Pittsburg Seam—drift.* This mine is located 6½ miles North of Clarksburg, W. Va., on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced at present by furnace is ample to fully comply with the State Mine Laws at the present time, but formerly the ventilation was bad before the furnace was constructed. The top in this mine is fairly good, top coal being maintained throughout the development. Timbering is well looked after. The coal is undercut by electric machines, and hauled to the mouth of drift by mules and horses and from thence to the tibble by means of head rope. The State Mine Laws were disregarded to some extent by the management in some particulars in which the Inspector thought was important, and this matter was taken up very vigorously with the management on the ground, with the result that, at the present time, this mine is fully complying with the State Mine Laws. No gas has ever been found in the mine. With a full force of men and with the present development and equipment, the mine is capable of producing 100 tons daily.

JOHN PRICE, Mine Foreman.

G. S. PRICE, Supt.

LAMBERTS RUN COAL COMPANY.

Series No. 233. *Clauson Mine—Pittsburg Seam—drift.* This mine is located $7\frac{1}{2}$ miles North of Clarksburg, W. Va., on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation has been natural, and rather bad throughout the development until very recently, when the Company purchased a 6 ft. Stine fan of the disc type, which they have installed, with electric connection, and on date of last visit (a few days since), it was ready to put in operation with the exceptions of a few of the equipments for which they had a bill and were expecting. On their arrival, this fan will be put in operation and will properly ventilate this development. The headings are going to the dip and the water is handled by pump, with electric connection. In the rooms however, the drainage is good. The top is fairly good throughout the development. Timbering is carefully looked after. The coal is undercut with picks and is hauled to the drift mouth by means of mules and horses, and from thence it is hauled by head rope to the tippie. The power connected to the drum being electricity. The State Mine Laws are well observed. With the present development and equipment and with a full force of men, the mine is capable of producing 200 tons per day.

DORSEY POPLÉ, Supt. and Mine Foreman.

HERO COAL & COKE COMPANY.

Series No. 234. *Hero Mine—Pittsburg Seam—drift.*—This mine is located $10\frac{1}{2}$ miles north of Clarksburg, West Virginia, on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is natural, and in the right hand section of the mine it is found to be unsanitary to such an extent that the Inspector recommended the immediate installation of a fan of suitable dimensions to properly ventilate the mine. The management purchased a fan and installed it a very short time ago, but upon examination, the Inspector was of the opinion that it was entirely too small and inadequate, and recommendations were made that it be replaced by a fan of suitable size to properly ventilate the development. Roof and timbering throughout this mine, with the exception of a few places, is good. Drainage is good. No gas has ever been found. Dust however, during the winter months was found in dangerous quantities, and recommendations were made to have it properly wet and rigorously insisted upon by the Inspector. The management procured pump and hose and on date of last visit the dust was found in satisfactory condition. The coal is undercut by picks and hauled to the tippie by means of horses and mules. The State Mine Laws are observed other than the matters mentioned above. With a full force of men and with the present development and equipment, this mine is capable of producing 350 tons daily.

ROBERT SHAFFER, Supt. and Mine Foreman.

BLUE RIDGE COAL COMPANY.

Series No. 235. *Thompson Mine—Pittsburg Seam—drift.*—This mine is located 11 miles north of Clarksburg, West Virginia, on the W. Va. S. L.

Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 5 ft. Buffalo fan of the disc type, is good throughout the development. The top or overlying strata, when exposed to the air, is rather bad and requires careful timbering. The top coal however, is maintained throughout the entire development where possible to do so. The drainage is bad by reason of all or nearly all of the workings going to the dip, water being handled by bailing the same in water cars. Coal is undercut by picks and hauled to the drift mouth by mules and horses, where it is dumped in a chute, which slides it down to the R. R. in which it is loaded. The State Mine Laws are fairly well observed, but some insistence has been used by the Inspector as to their observance. No gas is found in this mine. Some dust found in the right hand section of the mine during the winter months, and insistence was used that it be properly cared for, which was done. With a full force of men and with the present equipment and development, this mine is capable of producing 500 tons daily.

ISHAM KEITH, Business Manager.

FRANK LIMER,
Mine Foreman and Supt.

PITTSBURG & FAIRMONT FUEL COMPANY.

Series No. 236. *Pooz Mine—Pittsburg Seam—drift.*—This mine is located 12 miles north of Clarksburg, West Virginia, on a branch off of the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 16 ft. curved blade fan with direct steam connection, is good throughout the development, which has been working during the past year. The top or overlying strata is very bad when all the coal has been removed and it is exposed to the air, and requires very careful watching and timbering. Top coal is maintained in all working places where it is possible to do so. Several places along haulways however need attention at this time as to timbering, which the operating company was engaged at on date of last visit. Drainage is fair throughout the development when normal conditions prevail, but on date of my recent visit, by reason of very heavy rains, the drainage was found rather bad in some sections of the mine. Some gas was formerly found liberating in the advance workings of this mine, but on date of last visit, no gas could be detected. The coal is undercut by picks and also by electric machines of the chain type and hauled to the junction on the inside of the mine by means of horses and mules, and from thence it is lowered down the engine plane by means of endless rope and hand grip to the tippie, where it is dumped into the Railroad cars. The State Mine Laws are well observed at this mine. With a full force of men and with the present development and equipment, this mine is capable of producing 1800 tons daily.

R. E. KERNS and WESLEY MALONE, Mine Foremen.

A. C. ICE, Supt.

PITTSBURG & FAIRMONT FUEL COMPANY.

Series No. 237. *Lucas Mine—Pittsburg Seam—drift.*—This mine is located 12 miles north of Clarksburg, West Virginia, on a branch off of the

W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 7 ft. Stine fan with electric connection, is fairly good throughout the development. The top or overlying strata is exceedingly bad in sections of this mine when all the coal is removed and it is exposed to the air, and requires very careful attention as to timbering. Small quantities of explosive gas was formerly found liberating in places in advanced sections of this mine, but on date of last visit, no explosive gas was found. Some dust was found in sections of this mine during the cold winter months, but was well taken care of by means of hose. The coal is undercut by electric machines of the chain type, and hauled to the tippie with mules and horses. Drainage is good as a rule in all working sections of this mine. The State Mine Laws are well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1600 tons daily.

JOHN WALTERS, Mine Foreman.

A. C. ICE, Supt.

FAIRMONT COAL COMPANY.

Series No. 238. *Robinson Run Mine—Pittsburg Seam—drift.*—This mine is located 13½ miles north of Clarksburg, West Virginia, on a branch off of the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system, and the ventilation which is produced by a 7 ft. Stine fan with electric connection, is good throughout the development. Explosive gas was found liberating in several sections of this mine, but is well cared for by means of serviceable stoppings and sufficient air to the working places. This mine is also inclined to be dry and dusty during the winter season especially, but the dust is being well cared for by hose and systematic watering. Top coal is being maintained throughout the entire development where it is possible to do so, but by reason of numerous clay veins, the top is bad in places. Timbering is being carefully looked after. The coal is undercut by electric machines of the chain type and is hauled to the drift mouth at the foot of engine plane by means of electric motor. From thence it is conveyed to the tippie by means of mechanical chain hoist. The State Mine Laws are being well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 450 tons daily.

ADAM GROSS, Mine Foreman.

E. P. GOEDECKE, Supt.

ROSE BUD COAL COMPANY, changed to ROSE BUD FUEL COMPANY.

Series No. 239. *Rose Bud Mine—Pittsburg Seam—drift incline.*—This mine is located 14 miles north-west of Clarksburg, West Virginia, on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, formerly produced by furnace, was only fair throughout the development, but on date of last visit, the management had purchased fan of the Buffalo Disc type, and was expecting its arrival. They gave the Inspector the assurance that they would immediately install the same as soon as received. Drainage is fair throughout the development. The top or overlying strata is very

bad when all the coal is removed and when exposed to the air, requires careful timbering, which is fairly well looked after. No gas has been found during the past year. The coal is undercut by electric machine and hauled to the head of the plane by horses and mules and thence it is lowered to the tippie by traction plane where it is dumped into the cars. The State Mine Laws are fairly well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 400 tons daily.

TONY STARR, Mine Foreman.

J. F. STRAIGHT, Supt.

MONROE COLLIERY COMPANY.

Series No. 240. *Sylvester Mine—Pittsburg Seam—drift incline.*—This mine is located about 14 miles northwest of Clarksburg, West Virginia, on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system. The ventilation which is produced by furnace, is only fair throughout the development. Top coal is maintained throughout the entire development, and timbering is well looked after. No gas has been found in the past year. Some sections of this mine is inclined to be dry and dusty and insistence was used that it be systematically and thoroughly watered. Drainage is good in the larger portion of the mine. The coal is undercut by compressed air machines of the puncher type and hauled to the top of the plane by mules and horses and lowered by traction to the tippie where it is dumped into the car. The State Mine Laws were being complied with in all the important features, on date of last visit. The Superintendent's attention was called to the fact that his records were not on the form prescribed by law. He agreed to fully comply at once. With a full force of men and with the present development and equipment, this mine is capable of producing 450 tons daily.

WILLIAM F. WHITE, Mine Foreman.

B. H. MONROE, Supt.

NATIONAL COAL COMPANY.

Series No. 241. *Dola Mine—Pittsburg Seam—drift.*—This mine is located 16 miles northwest of Clarksburg, West Virginia, on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by furnace has always been found ample to fully comply with the law. No gas is found. Drainage is only fair, but the working places are well drained. Top coal is maintained throughout the development where possible to do so as the overlying strata is very bad and requires great care as to timbering in places where the top coal is broken. The coal is undercut by picks and hauled to the tippie by mules and horses. The State Mine Laws are fairly well observed. With the present development and equipment, the mine is capable of producing 100 tons daily.

CREED MURPHY, Supt.

GEORGE ADAMS, Mine Foreman.

FAYETTE COAL COMPANY.

Series No. 242. *Fayette Mine—Pittsburg Seam—drift incline.*—This

mine is located 16 miles northwest of Clarksburg, West Virginia, on the W. Va. S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a furnace, is fairly good throughout the development. Top coal is maintained throughout the entire development, except where clay veins were encountered and it was impossible to do so. In these places it requires careful timbering, which is being well looked after. No gas is found. Some dust found in the winter season and recommendations were made that it be systematically watered. The coal is undercut by picks and hauled to the top of the plane by mules and horses and lowered to the tippie by traction, where it is dumped into the R. R. car. The management of this mine is considering the installation of compressed air for undercutting coal. The State Mine Laws are observed. With a full force of men and with the present development and equipment, this mine is capable of producing 400 tons daily.

J. W. JOHNSON, Mine Foreman.

B. T. GREAVE, Supt.

SHORT LINE COAL COMPANY.

Series No. 243. *Girard Mine No. 2—Pittsburg Seam—drift.*—This mine is located 16½ miles northwest of Clarksburg, W. Va., on the S. L. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 10 ft. curved blade fan, driven by steam engine with belt connection, is fairly good throughout the development. Drainage is good in all the working places with the exception of some dip entries. Small quantities of explosive gas liberates in some of the advanced workings, but is being taken care of with serviceable stoppings and ample ventilation. Some dust is found in the winter season in sections of the mine. Recommendations were made and complied with in regard to this matter. Top coal is maintained throughout the entire developments, as the overlying strata is fire clay and very bad when exposed to the air. The coal is undercut by picks and hauled to the junction on the inside by mules and horses and from there it is conveyed to the tippie by means of head rope. The State Mine Laws are well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 600 tons daily.

E. G. VINCENT, Mine Foreman.

P. B. ROBINSON, Supt.

FAIRMONT & BALTIMORE COAL & COKE COMPANY.

Series No. 244. *Fairmore Mine—Pittsburg Seam—drift.* Engine plane. This mine is located two miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is produced by two furnaces and one fan and is only fairly good throughout the development. The fan is 12 ft. curved blade and ventilates but a small portion of the present working section of the mine. The roof is very bad where the top coal is removed and in some sections of the old works, it has fallen out very high and requires constant attention. The drainage is only fair in some sections and in other sections in the old works, it is

very bad, while the newer development is good in all the working places. No gas has been found during the past year. The coal is undercut by pick and hauled to the outside in the newer development and taken from thence to the top of the engine plane by means of steam locomotive, while in the older development it is hauled to the junction on the inside and from thence to the tippie by means of head and tail rope. The State Mine Laws are observed in all the important matters. With the present development and equipment and with a full force of men, this mine is capable of producing 500 tons daily.

THOMAS WESTMORELAND, Mine Foreman.

A. L. WHITE, Superintendent.

MADEIRA-HILL-CLARK COAL COMPANY.

Series No. 245. *Goff Mine—Pittsburg Seam—drift incline.*—This mine is located $3\frac{1}{2}$ miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is at the present time produced by the Waldo No. 1 fan, and intersection being cut underground between the two mines, and is fairly good throughout the development. Top coal is maintained throughout the entire development and for this reason the roof is good. The coal was undercut formerly by pick, but in December of last year, an inspection was made in company with the Superintendent, Mr. Wilburn, and a large portion of this mine was found to be dry and dusty, so much, that it was the judgment of the Inspector, that it was absolutely necessary to systematically water the same. The air pipes from Waldo No. 1 Mine were run through the intersection between the two mines for the purpose of throwing water through these pipes to wet the dry section. When this was accomplished, the Superintendent decided that as he had two or three compressed air machines of the puncher type idle at Waldo, that he would transfer these machines to this mine for the purpose of cutting the coal, which he did, and at present a considerable of the output is undercut by compressed air machines. Drainage is good. No gas found. The coal is hauled to the drift mouth by mules and horses and lowered to the tippie by traction plane, where it is dumped into the R. R. car. With the present development and equipment and with a full force of men, this mine is capable of producing 500 tons daily.

O. J. FOWLER, Mine Foreman.

W. R. WILBURN, Supt.

MADEIRA-HILL-CLARK COAL COMPANY.

Series No. 246. *Waldo Mine No. 1—Pittsburg Seam—Drift Incline.*—This mine is located 4 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 16 ft. curved blade fan with direct steam connection, has always been fairly good throughout the development, but by reason of Goff mine being connected, it was found necessary for the Inspector to grant special permit to the Company to exceed sixty men on one split as prescribed by

law, as sanitary conditions were fairly good. The top coal is maintained throughout the entire development where it is possible to do so and timbering is exceedingly good in all the room work and fairly good along the haulways. No gas has been found during the past year at this mine. Drainage is fairly good in the present development, formerly rather bad (on 1st Left). The coal is undercut by compressed air machines of the puncher type and hauled to the drift mouth by means of horses and mules and lowered incline to tippie by Wagner-Palmros system. All dry and dusty sections are well cared for by means of hose, water being forced through the air pipes for this purpose. The State Mine Laws are being well observed. With the present equipment and development and with a full force of men, this mine is capable of producing 1000 tons daily.

A. G. COBURN, Mine Foreman.

W. R. WILBURN, Supt.

SOUTHWESTERN COAL COMPANY.

Formerly the Washington Fuel Company.

Series No. 247. *Miller Mine No. 1—Pittsburg Seam—drift.*—This mine is located 4 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by furnace, is fairly good throughout the development. The top or overlying strata where it is possible to do so and where it is broken, timbering is well looked after. Drainage was rather bad on date of last visit but the operating company was endeavoring to cut the straight heading to the outside on the opposite of the hill from the opening. When this is done it will drain the entire development. No gas found. The coal is undercut with picks, hauled to the drift mouth by mules and lowered to the bottom of the hill by traction plane where it is picked up by steam locomotive and hauled to the tippie. The State Mine Laws are being observed at the present time. With a full force of men and with the present equipment and development, this mine is capable of producing from 300 to 400 tons daily.

D. E. BROWN, Mine Foreman.

L. B. STEVENS, Supt.

Series No. 248. *Miller Mine No. 2—Pittsburg Seam—drift.*—This mine is located 4½ miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is produced naturally. Drainage on date of last visit was bad on account of falls of top in ditches, etc. This mine however, had not been in operation for some time prior to this visit and a force of men were engaged on that date in cleaning up the falls and preparing to put this mine in operation. The top is very bad when the top coal is removed, but it is being maintained where possible to do so. The development at the present time is very small and complies with the State Mine Laws. No gas has ever been discovered in this mine.

The coal is undercut with picks and hauled to the drift mouth by mules and lowered to the foot of the hill by traction plane and hauled in conjunction with the output of No. 1 Mine by the same steam locomotive to the tippie, where it is dumped into the car. With a full force of men and with the present development and equipment, this mine is capable of producing 100 tons daily.

D. E. BROWN, Mine Foreman.

L. B. STEVENS, Supt.

CLARKSBURG FUEL COMPANY.

Series No. 249. *O'Neil Mines, Nos. 1, 2, 3, and 4—Pittsburg Seam—drifts.* These mines are located about 5 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. They are opened up on the double entry system and the ventilation, which is produced by two 10 ft. curved blade fans with direct steam connection, has always been found ample to comply with the State Mine Laws. These mines are connected underground and the output of all are hauled to the tippie by means of mules and horses via No. 4 drift. The coal is undercut by compressed air machines of the puncher type. The roof is extremely bad where exposed to the air. Top coal is maintained throughout the entire development where possible to do so, and in places where top coal is removed, it requires immediate and careful timbering. Drainage in some sections of these mines is rather bad by reason of local conditions, the water being handled by pumps, but the operating company has been planning an opening to the outside on the opposite side of the hill from the opening, through which they think they will be able to ditch the water. There is some diversity of opinion about this matter however, and they have not fully decided as to what they will do. Very small quantities of explosive gas was found liberating in some of the working places on date of one of my former visits, but was being well taken care of by sufficient air to working places. The State Mine Laws are being fully observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1500 tons daily.

GEORGE SKINNER, Mine Foreman.

J. R. ELSESS, Supt.

THE MADEIRA-HILL-CLARK COAL COMPANY.

Series No. 250. *Randolph Mine—Pittsburg Seam—drift.*—This mine is located about 6 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the triple entry system, and the ventilation which is produced by 15 ft. curved blade fan with direct steam connection, has always been found ample to fully comply with the State Mine Laws. The full efficiency of this fan however, is not obtained, by reason of improper construction of the fan house. This development is fast approaching that stage where the full efficiency will be required. This matter was talked over with Supt. Wilburn, who is a thorough, practical man, and plans were agreed on with him to remedy this matter. No gas found during past year, but sections of this mine were inclined to be dry and dusty and recommendations were made to this company in regard to this dust, and Mr. Milburn installed a

thorough system of pipes and hose and carefully looked after the matter, for which I desire to congratulate him. The overlying strata is very bad when exposed to the air, but top coal is being maintained and timbering is carefully looked after. The coal is undercut by electric machines of the chain cutter type and hauled to the tippie by electric motors. The water is handled exclusively by pumps, a portion of which is used on the inside in wetting the dust. The State Mine Laws are well observed. With full force of men and with the present development and equipment, this mine is capable of producing 1000 tons daily.

C. J. ADAMS, Mine Foreman.

W. R. WILBURN, Supt.

THE MADEIRA-HILL-CLARK COAL COMPANY.

Series No. 251. *New Chieftain Mine--Pittsburg Seam--drift.* — This mine is located about 6 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by a 15 ft. curved blade fan with direct steam connection, has always been found ample to ventilate the mine in such a manner as to fully comply with the State Mine Laws. The top or overlying strata is very bad when all the coal is removed, requiring the most careful attention as to timbering. This mine however, has not been in operation to any extent during the past year, for reasons unknown to the Inspector. No gas has ever been found. The water is handled exclusively by pumps, and on date of last visit, large bodies of standing water was found on the inside, which prevented a thorough inspection of the mine, but as the mine was not in operation and the operating company did not anticipate putting it in operation soon, no recommendations were made concerning this water. The coal is undercut by electric machines and is hauled to the tippie by means of electric motor. This is a twin tippie, which spans the ravine, and separates this mine from Randolph, belonging to the same company, and the output of both mines are dumped over the same tippie, when they are both operating. The State Mine Laws are observed. With a full force of men and with the present development and equipment, this mine is capable of producing 500 tons daily.

C. J. ADAMS, Mine Foreman.

W. R. WILBURN, Supt.

FAIRMONT COAL COMPANY.

Series No. 252. *Reynoldsville Mine--Pittsburg Seam--drift.*—This mine is located about 6 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 10 ft. curved blade fan with direct steam connection, was always found ample to comply with the State Mine Laws. The top or overlying strata is exceedingly bad, requiring the most careful attention as to timbering, and as the development was very old, it was a matter of very great expense to the operating company to keep the haulways in a satisfactory condition as to general safety, and for this reason, I presume, this mine has been recently abandoned. The drainage was also very bad. No gas found in this mine. The coal is undercut by picks and hauled to the drift mouth by means of mules and horses and hoisted to the tippie by head rope

where it is dumped into the R. R. car. State mine Laws were observed. By reason of the abandonment of the mine, no estimate will be given on the output.

R. H. POLLICK and M. C. GANDY, Mine Foremen.

J. R. ELSEES, Supt.

O'GARA COAL MINING COMPANY.

Series No. 253.—*O'Gara Mine—Pittsburg Seam—slope.*—This mine is located about 6 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a Charleston, W. Va., fan, with steam and belt connection, is fairly good throughout the development. Some gas was found liberating in the advanced working faces, but accumulations of the same were prevented by fairly serviceable stoppings and sufficient air. Some dust was found on the 3rd Right, but was being well taken care of on date of visit. The operating Company was cautioned as to this dust and recommendations made. The overlying strata is very bad and falls very high in places where the top coal is removed and timbering has been neglected. Timbering however, is carefully looked after along main haulways and top coal is being maintained where possible to do so. The water is handled exclusively by pumps, and by reason of inadequacy of these pumps, at times the water accumulates in places to such a degree that it interferes with the successful operation of the mine. The coal is undercut by compressed air machines of the puncher type and hauled to the foot of the slope by horses and mules and from there it is hoisted up by head rope to the tibble, where it is dumped into the cars. State Mine Laws are observed. With a full force of men and with the present development and equipment, this mine is capable of producing 500 tons daily, under favorable conditions.

WM. F. WHITE, Supt.

R. H. POLLICK, Mine Foreman.

DOUGLASS-RAUCH COAL COMPANY, changed to PENN-WEST VIRGINIA COAL COMPANY, changed to W. B. GUNTON COAL COMPANY.

Series No. 254. *Phoenix Mine—Pittsburg Seam—slope.*—This mine is located about 6 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 12 ft. Charleston fan of the disc type, was always found ample to comply with the State Mine Laws. Some gas was found liberating in the advanced working places and some dust found in the rooms, the gas being fairly well taken care of by means of sufficient air on dates of visit. Recommendations were made in regard to the dust, and the company then operating agreed to comply with these recommendations as soon as possible, but in a few days thereafter, this company failed. The company then operating was the Penn-West Virginia Coal Company. This mine has very recently been taken over by the W. B. Gunton Coal Company, since which time, no visit has been made to this mine by the Inspector. The coal is undercut by compressed air machines of the puncher type, and hauled to the foot of the slope by mules and horses and from thence up the slope

to the tibble by head rope, where it is dumped in the car. Mine Laws were not fully complied with on dates of visits during the past year, and it was found necessary for the Inspector to remove the men from the mine in excess of twenty, on account of the conditions of the second opening, which was found with standing water and other debris, and in such condition that the Inspector deemed himself justifiable in removing the men as above stated, and recommending that the second opening be put in condition to fully comply with the law. The top is of the same nature as that of O'Gara mine, this mine being adjacent thereto, requiring the most careful attention as to the timbering. With a full force of men and with the present development and equipment, this mine is capable of producing 400 tons daily.

W. B. GUNTON, G. M.

M. MANNIX, Mine Foreman.

CLARKSBURG FUEL COMPANY.

Series No. 255. *Lydia Mine—Pittsburg Seam—slope.*—This mine is located 7 miles west of Clarksburg, West Virginia, on the Parkersburg Branch of the Baltimore & Ohio Railroad. Has not been in operation during the past year and no indication of resumption soon.

J. O. BROOKS, Supt. and Assistant to the General Supt.

PITCAIRN COAL COMPANY OF WEST VIRGINIA.

Series No. 256.—*Pitcairn Mine—Pittsburg Seam—drift.*—This mine is located one mile south of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 15 ft. curved blade fan with direct steam connection, has always been found ample to fully comply with the State Mine Laws. However, full efficiency of this fan is not obtained by reason of improper construction of the fan house. The mine development is fast reaching the point where it will be absolutely necessary to obtain full efficiency, and recommendation have been made as to how these changes and alterations are to be made. The top or overlying strata is only fair when all the coal is removed and requires careful timbering. In the larger part of the mine however, top coal is maintained, which prevents the slate from being exposed to the air and makes conditions much better as to roof. Timbering is carefully looked after and this mine has been greatly improved during the past year as to its physical condition on the inside in many ways. The coal is undercut by electric machines of the chain type and hauled to the drift mouth by means of electric motors from thence to the tibble by steam locomotives. On date of the last visit, explosive gas was found to be liberating in small quantities in several sections of this mine and recommendations were made as to the careful attention to be given to prevent accumulations. Sufficient air was being conducted to the working places on dates of visit to prevent accumulations. Drainage is good throughout the development with a few exceptions. State Mine Laws are being well observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1200 tons daily.

J. A. JENKINS, Supt.

W. J. KEEFE, W. C. MINEAR and WILLIAM GANTZ, Mine Foremen.

CLARKSBURG FUEL COMPANY.

Series No. 257. *Dixie Mine—Pittsburg Seam—drift incline.* — This mine is located about one mile south of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is produced by natural current, and has always been found ample to fully comply with the State Mine Law, and the operating company is at present engaged in robbing the pillars preparatory to permanent abandonment. The drainage by reason of local conditions is rather bad. No gas has ever been found in this mine. The roof is very bad when all the coal is removed and the overlying strata is exposed to the air. Top coal however, is maintained where possible to do so, and timbering is well looked after and State Mine Laws are complied with. The coal is undercut by pick and hauled to the top of the plane by means of mules where it is lowered to the tippie by traction. With a full force of men and with the present development and equipment, this mine is capable of producing 40 tons daily.
G. W. ELIASON, Supt and Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 258. *Lynch Mine—Pittsburg Seam—drift incline.* — This mine is located six miles south of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation which is produced by a 12 ft. curved blade fan with electric connection, is good throughout the present working section. By reason of local conditions, the drainage is bad. Roof is also bad when exposed to air and requires careful timbering. No gas found. State Mine Laws are well observed. The coal is undercut by electric machines and with pick and hauled to the top of plane with horses and mules and lowered to the tippie by traction. With a full force of men and with the present development and equipment, this mine is capable of producing 200 tons daily.
LOWELL CHILDS, Supt.
FRANK McNEMAR, LLOYD PUGH, OVERT CORK and BROOKS PATTON, Mine Foremen.

CLARKSBURG FUEL COMPANY.

Series No. 259. *Two Lick Mine—Pittsburg Seam—drift.*—This mine is located about 6 miles south of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by a 7 ft. Stine fan with electric connection has always been found sufficient to comply with the State Mine Laws. The top in some sections of this mine is exceedingly bad and requires very careful attention as to timbering, while in other sections of the mine the top is exceedingly good. Small quantities of explosive gas was found liberating in some of the advanced workings, but was being well taken care of by serviceable stoppings and sufficient air on dates of visit. The coal is undercut by electric machines and hauled to the tippie by electric motors. The State Mine Laws are well observed. Drainage in some sections of the mine is very bad and

in other sections it is exceedingly good. With a full force of men and with the present development and equipment, this mine is capable of producing from 1000 to 1200 tons daily.

LOWELL CHILDS, Supt.

JOHN CONDRY, E. P. McOLVIN, SAM LEWIS, Mine Foremen.

MARSHALL COAL COMPANY.

Series No. 260. *Marshall Mine—Pittsburg Seam—Drift Incline.*—This mine is located seven miles South of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by a 12 ft. Crawford & McCrimmon fan with direct steam connection, is only fair, reason of inadequacy of fan and also improper construction of the fan house. Recommendations were made on date of last visit as to the remodeling of this fan house and also as to the bettering of the distribution of the air on the inside. These recommendations have only partly been complied with, but however, the mine has not been in operation to any extent since date of last visit. Drainage is fairly good in all the working places. And also the roof is above the average of the Pittsburg Seam in this region. No gas has ever been found in this mine. The State Mine Laws, other than the ventilation spoken of above, are complied with, and had the mine been operating, insistence would have been used by the Inspector that his recommendations be complied with promptly. I have been informed that the operating company is installing a mechanical haulage on the inside, but at this time I am not able to state just what kind of haulage it is. With a full force of men and with the present development and equipment, this mine is capable of producing 1200 tons daily.

N. H. HACKER, Supt. and Mine Foreman.

COOK & HART COAL COMPANY.

Series No. 261. *Cook Mine—Pittsburg Seam—drift.*—This mine is located about seven miles south of Clarksburg, West Virginia, on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation, which is produced by natural current, by reason of local conditions being favorable to natural ventilation, and for the additional reason that explosives are not used in the mine for the purposes of shooting the coal, is good. Drainage is bad and needed immediate attention on date of last visit as to ditching, etc. Timbering is well looked after and the top in some sections of the mine is very bad, while in other sections it is rather good. The coal is undercut and taken down without explosives, by the use of picks exclusively, and hauled to the drift mouth at the top of plane by mules and horses where it is lowered to the tippie by traction plane. State Mine Laws are observed in all important matters. With a full force of men and with the present development and equipment, this mine is capable of producing 300 tons daily.

JAMES F. COOK, Supt.

PATRICK COOK, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 262. *West Fork Mine—Pittsburg Seam—drift incline.*—This mine is located about seven miles south of Clarksburg, W. Va., on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation which is produced by furnace, is ample to fully comply with the State Mine Laws. The roof or overlying strata is very bad when exposed to the air, requiring very careful timbering along the haulways. The top coal is being maintained where possible to do so in all the new development. Drainage is rather bad in some sections on account of local conditions. No gas found. State Mine Laws are being observed. The coal is undercut by picks and hauled to the drift mouth by mules and horses and lowered to the tippie by traction. With the present development and equipment and with a full force of men, this mine is capable of producing 150 tons daily.

LOWELL CHILDS, Supt. JOE MATHENEY, Mine Foreman.

HUTCHINSON FUEL & SUPPLY COMPANY.

Series No. 263. *Byron Mine No. 1—Pittsburg Seam—drift.*—This mine is located about 8 miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 7 ft. Stine fan, was always found ample to fully comply with the State Mine Laws. Small quantities of explosive gas was formerly found liberating in some of the advanced working places, but was being well cared for on dates of visit by serviceable stoppings and sufficient air. This mine however, has not been in operation to any extent during the past year and I am informed by officials of the operating Company, that it will be connected underground with that of No. 2 Mine and the output will be hauled via No. 2 drift. The roof is rather bad and requires very careful attention as to timbering. Drainage is also rather bad and for this reason the intersection of the two mines mentioned above is meditated by the operating Company. State Mine Laws are observed. With the present development and equipment and with a full force of men, providing the interior was put in condition for operation, this mine is capable of producing 400 tons daily.

W. G. H. CRAWFORD, Supt. W. B. MALONE, Mine Foreman.

Series No. 264. *Byron Mine No. 2—Pittsburg Seam—drift.* This mine is located about 8 miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the triple entry system and the ventilation, which is produced by a 12 ft. Crawford & McCrimmon fan with direct steam connection, has always been found sufficient to comply with the State Mine Laws. The full efficiency of this fan however is not obtained. Suggestions were offered to the operating Company as to the manner of remodeling the fan house for purpose of obtaining better results, which they agreed to do at their earliest oppor-

tunity. No gas has ever been found in this mine. The roof requires careful attention as to timbering. Drainage is fairly good, the larger portions of water being handled by pumps. The coal is undercut by both types of machines—air and electric, and is hauled to the tippie by means of electric motor, this tippie being a twin tippie, which spans the ravine that separates it from No. 1 Mine, the output of both mines being dumped over the same tippie when in operation. State Mine Laws are observed. With a full force of men and with the present development and equipment, this mine is capable of producing 1200 tons daily.

W. G. H. CRAWFORD, Supt.

W. B. MALONE, Mine Foreman.

CLARKSBURG FUEL COMPANY.

Series No. 265. *Interstate Mine No. 1—Pittsburg Seam—drift incline.* This mine is located 8 miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system and has not been in operation during the past year, but the operating Company is at the present time. March 3, 1909, engaged with a force of men in cleaning, remodelling and rebuilding preparatory to starting this operation.

L. C. KEENER, Supt.

U. B. BLAKESMITH, Mine Foreman.

Series No. 265a. *Interstate Mine No. 3—Pittsburg Seam—drift.* This mine is located 8 miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation, which is produced by a 12 ft. curved blade fan with direct steam connection, has always been found ample to fully comply with the State Mine Laws. The top or overlying strata is of a slippery, potty nature in some sections of the mine, and in other sections of the mine it is slate with horizontal cracks and for this reason, the top is dangerous when all the coal is removed, and requires very careful attention as to timbering. The drainage is fairly good in the present working section of the mine. The right hand section of the mine however, which has not been in operation during the past year, has considerable standing water, that is infiltrated with sulphuric acid to such an extent that it will be necessary for the operating Company to install wooden pumps for the purpose of handling the water from this section of the mine when put in operation. No gas is found. The coal is undercut by pick and by machines of the puncher type and hauled to the tippie by means of mules and horses. The State Mine Laws are observed. With the present development and equipment and with a full force of men, this mine is capable of producing 1500 tons daily.

L. C. KEENER, Supt.

JESSE THOMAS, Mine Foreman.

JANE LEW COAL & COKE COMPANY, changed recently to the CLARKSBURG GAS COAL & COKE COMPANY.

Series No. 267. *Fulmer No. 1 Mine—Pittsburg Seam—drift.* This mine is located 16 miles South of Clarksburg, W. Va., on the W. Va. & P. Di-

vision of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by furnace, has always been found ample to comply with the State Laws. The top or overlying strata is of a slippery, potty nature and draw slate in character, and requires very careful attention as to timbering when all the coal is removed, and by reason of the numerous clay veins it is almost impossible to maintain top coal. The former operating Company however, endeavored to do so where possible. The drainage is only fair by reason of local conditions, such as local dips, etc. No gas was found liberating during the past year. The Jane Lew Coal & Coke Company went into the hands of a Receiver during the past year and has just recently changed to the Clarksburg Gas Coal & Coke Company, as stated in the heading above. This Company is not yet in operation, but I understand that they will at once put the mine in condition to operate, as it has been closed down for some time and no one on the ground except the custodian of the property, Mr. M. Mannix, who was former Mine Foreman in charge when in operation. The mine is equipped with electric machines for undercutting, but by reason of the numerous clay veins encountered, the coal was mined exclusively by picks and hauled to the top of the plane by mules and horses and lowered to the tippie by traction. State Mine Laws are observed while operating, and by reason of adverse conditions, such as clay veins, etc., it is impossible to give an approximate daily output.

For the Jane Lew Coal & Coke Company:

HARRY FULMER, Supt.

FRANK LOVE and M. MANNIX,

Mine Foremen.

For Clarksburg Gas Coal & Coke Company:

ERNEST FLETCHER, Supt. and Mine Foreman.

JACKSONVILLE COAL & COKE COMPANY.

Series No. 268. *Sarah B. No. 1 Mine—Pittsburg Seam—drift*—This mine is located 20 miles west of Sago, West Virginia, on the Coal & Coke Railroad. It started development on the single entry system and by reason of encountering very bad fault, was abandoned and has not resumed operation during the past year, up to September, 1908. The company owning this mine at the present time is in the hands of a Receiver and I have no information as to what the intention of the Receiver is after the resumption of physical operation at this mine.

WILLIAM ATKIN, Supt. and Receiver.

NICHOLAS COLE, Mine Foreman.

Series No. 269. *Sarah B. No. 2 Mine—Pittsburg Seam—drift*.—This mine is located 20 miles west of Sago, West Virginia, on the Coal & Coke Railroad. The identical conditions prevail here as described in No. 1 Mine, and has not been in operation during the past year up to September, 1908.

WILLIAM ATKIN, Supt. and Receiver

NICHOLAS COLE, Mine Foreman.

Series No. 270. *Sarah B. No. 3—Pittsburg Seam—drift.*—This mine is located 20 miles west of Sago, West Virginia, on the Coal & Coke Railroad. It is opened up on the double entry system and the ventilation, which is produced by furnace, has always been found ample to fully comply with the State Mine Laws. The drainage is good in all working sections of this mine and the top or overlying strata on the left hand side off of the Main entry, where the principal development is located, is exceedingly good. No gas has ever been found liberating from this coal. The coal is undercut by means of compressed air machines of the puncher type and is hauled to the drift mouth by mules and horses and from there it is conveyed to the tippie by a steam locomotive. State Mine Laws were observed while the mine was in operation, but it has been in the hands of a Receiver for several months, since which time, very little development has been made. With a full force of men and with the present development, this mine is capable of producing 300 tons daily, and possibly more. WILLIAM ATKIN, Supt. and Receiver.

NICHOLAS COLE, Mine Foreman.

PENNSYLVANIA CONSOLIDATED COAL COMPANY.

Series No. 271. *Pence Mine—Redstone Seam—slope.*—This mine is located four miles west of Buckhannon, West Virginia, on the Buckhannon & Weston Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation produced by a 12 ft. fan with direct steam connection. This mine when in operation, liberates small quantities of explosive gas at the working faces. It was also inclined to be dry and dusty, but at the present time it is filled to overflowing with water, as it has not been in operation during the past year, the operating company being in litigation, the nature of which I am not familiar with, and on dates of last visit, no information could be gleaned from anyone as to who the officials were that had charge of the physical management of the mine at that time.

PENNSYLVANIA CONSOLIDATED COAL COMPANY.

UPSHUR COUNTY.

RED ROCK FUEL COMPANY, controlled by FAIRMONT COAL CO.

Series No. 272. *Red Rock Mine No. 1—Redstone Seam—drift.*—This mine is located about 3 miles west of Buckhannon, West Virginia, on the Buckhannon & Weston Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by a 7 ft. Stine fan with electric connection, has already been found ample to fully comply with the State Mine Laws. The top or overlying strata is of the draw slate nature and by reason of the numerous clay veins encountered, is very bad in that section where they are located. The top by reason of the seam of coal being low, is shot down along the haulways for the purpose of obtaining sufficient height to properly handle the output. State Mine Laws are observed with the exception that the in-

spector deemed it necessary to call their attention to the condition of their haulways in reference to slate, the same being piled along haulways to such an extent that the Inspector deemed it necessary to mark refuge holes with white-wash, as the Law prescribes. Small quantities of explosive gas has been found liberating on some of the former visits, but was being well taken care of by means of sufficient air. The coal is undercut by electric machines of the chain type and is hauled to the tippie by means of electric motor. By reason of adverse local conditions, it is impossible to give an approximate estimate of the output.

ROBERT LANG, Jr., Supt.

J. A. BURKE, Mine Foreman.

Series No. 273. *Red Rock Mine No. 2—Redstone Seam—drift.*—This mine is located about 3 miles west of Buckhannon, West Virginia, on the Buckhannon & Weston Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system, and the ventilation is produced by a 7 ft. Stine fan with electric connection. The conditions physically, are identical with that of No. 1 already described. The coal is hauled in the same manner to the tippie, which is a twin tippie, spanning the ravine which separates the two drifts, and is dumped in conjunction with the output of No. 1 Mine.

ROBERT LANG, Jr., Supt.

J. A. BURKE, Mine Foreman.

NEWCOMER COAL COMPANY.

Series No. 274. *Newcomer Mine—Redstone Seam—drift.*—This mine is located 7 miles north-east of Buckhannon, West Virginia, on the Buckhannon & Belington Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation is produced by a furnace. By reason of a combination of circumstances, such as mine being not found in operation, etc., but one thorough inspection of this mine has been made during the past year. Two or three other visits have been made however to this mine. The conditions on the inside on dates of these visits were rather adverse on account of the numerous clay veins, but hopes were entertained by the management and also concurred in by the Inspector, that more favorable conditions would prevail as the development advanced. State Mine Laws are being observed. The coal is undercut by picks and hauled to the tippie by mules, and by reason of adverse conditions mentioned, impossible to estimate the daily output of this mine.

GEORGE CAMPBELL, Supt. and Mine Foreman.

BUCKHANNON RIVER COAL COMPANY.

Series No. 275. *Florence Mine—Masontown Seam—drift.*—This mine is located 3 miles west of Sago, West Virginia, on the Coal & Coke Railroad. It is opened up on the double entry system and the ventilation, which is produced by furnace, is fairly good throughout the development. The top or overlying strata is exceedingly good, the average thickness of the seam being 70 inches and for this reason it is not necessary to shoot

the top in order to gain height, the coal running very uniform in thickness. No gas found. This mine has been in operation very little during the past year. State Mine Laws were observed in all important matters on date of last visit. Drainage is good. The coal is undercut by picks and hauled to the drift mouth by mules where it is dumped into the R. R. car by means of platform and drop bottom pit cars. With the present development and equipment and with a full force of men, this mine is capable of producing 200 tons daily.

I. W. RECKARD, Supt. and Mine Foreman.

HARRISON COUNTY.

MARION GAS COAL COMPANY.

Series No. 276. *Bingamon Mine. — Pittsburg Seam — drift.* — This mine is located twenty miles north of Clarksburg on the west side of the West Fork River and has not yet reached that stage of development that would classify it as a commercial mine. It is opening up for the present on the double entry system, but the Mining Engineer tells me that he has not yet fully decided just what the plans of development for the interior of the mine will be. It is ventilated at the present time by an open grate. It is the intention of the company to install the latest electrical equipments for hauling and undercutting the coal. The coal will be hauled from the drift mouth to the west side of the river by electric motor, from thence it will be hoisted up a steel viaduct or engine plane which spans the river, to the tippie which is located on the east side of the river on the M. R. Division of the Baltimore & Ohio Railroad. The tippie and all or nearly all of the outside equipment is located in Marion county. The mine openings and all the acreage of coal is located in Harrison county, which belongs to the 2nd Mining District of West Virginia. This mine when fully developed will be of large capacity. Mine was not reported last year and is not yet shipping coal, but will be in the very near future.

THOMAS HORTON, Mine Foreman.

JAMES WAITMAN, Supt.

HAYWOOD COAL MINING COMPANY.

Series No. 277. *Monroe Mine—Pittsburg Seam—drift.*—This mine is located fourteen miles north of Clarksburg, West Virginia, on the M. R. Branch of the Baltimore & Ohio Railroad. It is opened up on the double entry system and the ventilation, which is produced by furnace, has always been found ample to comply with the State Mine Law. This mine is inclined to be dry and dusty and very rigorous insistence was used on the management by the Inspector that this dust be kept thoroughly and systematically watered, and on dates of last visit, this mine was found in a satisfactory condition as to this matter. Top coal is maintained throughout the development and timbering is carefully looked after. It will be necessary in the near future for the operating company to install fan for proper ventilation. Drainage is reasonably good and State Mine Laws on date of last visit were observed, but some trouble was experienced by the

Inspector to have a full compliance prior to this date. With a full force of men and with the present development and equipment, this mine is capable of producing 250 tons daily.

SEYMOUR McINTIRE, Supt.

R. E. CORNWELL, Mine Foreman.

THIRD DISTRICT.

GENERAL SUMMARY OF THE THIRD MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYES								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,200 lbs.)
Barbour	21	1	278	231	57	179	745	108	24	132	877	735,033	27,203
Monongalia	10		239	45	13	71	368	81	90	174	542	235,816	117,254
Preston	23	4	672	250	41	231	1,194	113	116	229	1,423	654,333	175,915
Taylor	16		317	91	20	91	519	101	3	104	623	437,633	5,302
Totals	70	5	1,506	617	131	472	2,826	406	233	639	3,465	2,062,815	325,674

JOHN F. BRATT,
Inspector, Third District.

OFFICE OF THE THIRD DISTRICT MINE INSPECTOR.
INDEPENDENCE, PRESTON Co., July 5th, 1909.

HON. JOHN LAING,

Chief of Department of Mines,
Charleston, W. Va.

DEAR SIR:—I herewith respectfully submit to you my Annual Report as Inspector of Mines of the Third District, for the year ending June 30th, 1909. This district is composed of Barbour, Taylor, Monongalia and Preston counties; there are seventy-three openings in this district, ten in Monongalia, twenty-three in Preston, sixteen in Taylor, and twenty-one in Barbour. Owing to the depression in business in the last year very few of the mines in this district have been working very steadily, and a number of them have not been in operation at all during the last year.

I am glad to say the conditions of the mines in this district are much better than they were a year ago, as to ventilation, drainage and general safety, especially in the mines that have been working steadily. The Mine Managers and Operators (or a majority of them) show a willingness to adopt any method that will put their mines in a safe condition, and especially as to taking care of the dust which is undoubtedly the most dangerous element we have to contend with in the mines; and I

always insist, that all fine dry dust be removed and kept thoroughly watered.

Several of the larger mines have equipped for their use electric pumps with hose and also Rotary Sprays attached to water cars, so that they are able to keep the dust thoroughly wet. I am very glad that I have no explosions to report in this district, and comparatively few fatal accidents. The fatal accidents investigated were caused through carelessness on the part of the parties themselves, there has been a number of non-fatal accidents, reports of which have all been forwarded to your office. With few exceptions the law has been fully complied with. I found it necessary to have some eight or ten employes arrested for using mixed oil for illuminating purposes. There has been three new operations in this district during the last year, two drift openings in the Upper Freeport seam in Barbour county, and one shaft opening in Lower Kittanning seam in Taylor county.

I still think the present Mining Law if fully complied with is sufficient for the protection of property and the lives and health of the employes, but think the Mining Laws of this state should include Fire Clay mines, there are some Fire Clay mines in this district.

In conclusion I wish to say, with the exceptions of the arrests mentioned above, my relations with the miners and also with the operators and Mine Managers have been of the most pleasant, and wish to thank them all for the kind courtesy shown me.

Very respectfully yours,

JOHN F. BRATT.

CONDITION OF THE MINES IN THE THIRD DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 320 indicates the third district and number 20 mine.

MONONGALIA COUNTY.

GREAT SCOTT COAL & COKE COMPANY.

Series No. 301. *Great Scott Mine.*—This mine is located three and one-half miles north west of Morgantown, and on the west side of the Monongahela River. It is a drift opening operating the Pittsburg seam on the double entry system. The ventilation is natural and is fair. The main heading has been driven through in the last year a distance of about 3000 feet; this is a very desirable little mine, the coal is of good quality and the natural conditions are good. Owing to the depression in the coal business this mine has not been working very much in the last year. The coal is shipped by river in barges, also by rail being conveyed from the mine across the river by rope in bucket.

This mine was reported last year as Great Scott mine No. 301 of the printed report.

A. G. TAIT, Supt.

GRANT COAL COMPANY.

Series No. 302. *Round Bottom Mine*.—This mine is located on the west side of the Monongahela River, six miles south west of Morgantown. It is a drift opening operating the Pittsburg seam on the double entry system, the ventilation is produced by a Fire Basket and is poor. We recommend that there be a fan installed at once, the roof and timbering is fair, oil used for illuminating purposes is of a fair grade; the drainage is very good. This mine has not been in operation much in this last year and was inspected but once; this mine was formerly known as the Niagara Coal & Coke Company.

This mine was reported last year as Round Bottom mine No. 302 of the printed report.

E. W. FREEMAN, Supt.

FAIRMONT COAL COMPANY.

Series No. 303. *Beechwood Mine*.—This mine is located twelve miles north of Fairmont on the F. M. & P. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. The ventilation is natural and is very good, the rooms and most of the entries are driven out to the crop which makes the circulation of air good. The head coal is left up in some parts of the mine, which makes a good roof. Timbering is very good and the oil is of a fair grade. Blankets and stretchers are kept on hand. Rules in several different languages are posted.

This mine was reported last year as Beechwood Mine No. 303 of the printed report.

HARRY TOOTHMAN, Supt.

WALTER ROWE and C. H. JOHNSON, Mine Foremen.

OPEKISKA COAL & COKE COMPANY.

Series No. 304. *Opekiska Mine*.—This mine is located at Opekiska, ten miles north of Fairmont on the F. M. & P. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. The ventilation is natural and poor. This mine has not been worked much in the last year. I have made several visits to this mine in the last year, but have not found the mine in operation and did not inspect it.

This mine was reported last year as Opekiska Mine No. 304 of the printed report.

W. S. WOODS, Supt.

F. H. LOVE and MR. WILFONG, Mine Foremen.

ELKINS COAL & COKE COMPANY.

Series No. 305. *Sabraton No. 5 Mine*.—This mine is located two and one-half miles from Morgantown near Rock Forge, is a drift opening operating the Pittsburg seam on the double entry system. The coal is hauled from the mine about one mile, by an electric motor to the tippie

on the M. & K. R. R. The ventilation is produced by a fan and on my last visit was fairly good. This mine has not been in extensive operation for some time past. The drainage is only fair and the roof is a soft slate and somewhat dangerous. Timbering is very good. The oil used is of a very fair grade. The second opening meets the requirements of the Law.

This mine was reported last year as Sabraton No. 5 mine. No. 305 of the printed report.

O. T. BARNARD, Supt.

WM. BARNARD, Mine Foreman.

CONNELLSVILLE BASIN COKE COMPANY.

Series No. 306. *Mine Nos. 1, 2 & 3*—This mine is located four miles south of Morgantown, on the M. & K. R. R. It is a drift opening operating the Upper Freeport Seam on the double entry system. The ventilation is produced by two fans, force and exhaust, and is rather poorly distributed in some sections of the mine. The roof is a hard bone coal and is excellent. The mine is somewhat dusty in some sections, but of late the dusty portions have been much better taken care of by removing the dust and keeping it well watered. A fair quality of oil is used. Rules are posted, blankets and stretchers kept on hand. The second opening meets the requirements of the law.

This mine was reported last year as Mine No. 1, No. 306 of the printed report.

G. T. GRAHAM, Supt

J. H. POWELL and W. B. ROBERTS, Mine Foremen.

ELKINS COAL & COKE COMPANY.

Series No. 307. *Richard No. 1 Mine*.—This mine is located four miles south of Morgantown. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation produced by a 20 ft. fan is very good. The roof in this mine is good, being a hard bone coal, and the timbering is good. This mine is very dry except in the dip headings, which have not been working for more than a year; as the company have plenty of territory to last them for some years to come without developing the dip headings. The drainage is good. This mine is rather dusty, but the dust is being well taken care of by hauling it out and keeping it well watered. The Management is making every effort to keep the mine in a safe and good condition. The second opening meets with the requirements of the Law.

This mine was reported last year as Richard No. 1 No. 307 of the printed report.

J. B. HANFORD, Gen. Supt.

O. F. BARNARD, Mine Foreman.

THE LOW COAL COMPANY.

Series No. 307a. *Big Falls Mine*.—This mine is located twelve miles north of Fairmont on the west side of the Monongahela river. It is a drift opening operating the Red Stone seam. This mine had not been

in operation in the last year. When coal was shipped from this mine it was shipped by river in barges.

This was reported last year as Big Falls Mine.

A. B. McDONALD, Supt.

PRESTON COUNTY.

ELKINS COAL & COKE COMPANY.

Series No. 308. *Bretz No. 2 Mine*.—This mine is located at Bretz on the M. & K. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a 16 foot Robinson fan, and is fairly well distributed through the mine. The drainage is good, and the roof is excellent being formed of head coal. The second opening fully complies with the law. Rules are posted, blankets and stretchers kept on hand. This mine has not been in operation for several months owing to the tippie burning down, but the company have erected a fine new steel tippie, and are now ready to resume operation.

This mine was reported last year as Bretz No. 2 Mine, No. 308 of the printed report.

J. B. HANFORD, Gen. Supt.

F. J. WOODSELLS, Mine Foreman.

Series No. 309. *Masontown No. 6 Mine*.—This mine is located at Masontown on the M. & K. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by an 8 foot fan, and is good. The drainage is good; the second opening fully complies with the law. The oil used for illuminating purposes is very fair. Shooting on the solid is strictly prohibited. The conditions of this mine for general safety are as near perfect as any mine in the Third District.

This mine was reported last year as Masontown No. 6 Mine, No. 309 of the printed report.

J. B. HANFORD, Gen. Supt.

JOSEPH HANFORD, Mine Foreman.

PRESTON COUNTY COKE COMPANY.

Series No. 310. *Cascade Mine*.—This mine is located at Cascade on the M. & K. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. There has been a 12 foot fan installed at this mine in the last year, which makes the ventilation good. The drainage, roof and timbering are good. The oil used is of a very fair grade, and the second opening fully complies with the law. On my last visit to this mine there were 100 coke ovens in blast, 48 of which have been built in the last year, with a number of others in course of construction. The entire output of the mine is converted into coke.

This mine was reported last year as Cascade Mine, No. 310 of the printed report.

EVERHART BIERER, Supt.

J. B. HAILE and D. B. DAVIS, Mine Foremen.

ELKINS COAL & COKE COMPANY.

Series No. 311. *Kingwood No. 4 Plant.*—This mine is located one mile north of Kingwood, on the M. & K. R. R. There are two openings at this plant Nos. 1 & 2, operating the Upper Freeport seam on the double entry system. No. 1, is ventilated by a large 16 foot fan, and the ventilation is good throughout the mine. The drainage is good, and the roof is a hard sand rock and is good. No. 2 is ventilated by a 4 foot Clifford fan, and is good throughout the mine. The roof is a hard sand rock; the drainage is good, and the oil used is of a fair quality. The second opening at this plant fully complies with the Law. This company seems to use every effort to fully comply with the law.

This plant was reported last year as Kingwood No. 4 Plant, No. 311 of the printed report.

J. B. HANFORD, General Superintendent.

R. R. BEAVERAGE, Mine Foreman.

IRONA COAL COMPANY.

Series No. 312. *Irona No. 1 Mine.*—This mine is located two miles west of Kingwood on the West Virginia N. R. R. It is a drift opening operating the Upper Freeport seam, on the double entry system. The ventilation is produced by a ten foot Stine fan, and is only fair. The drainage is good; the roof is good, it being a hard bone coal. The oil used is of a fair quality. The coal is hauled to the tippie by rope haulage. Blankets and stretchers are kept on hand, and rules posted.

This mine was reported last year as Irona No. 1 Mine, No. 312 of the printed report.

T. R. SPENCER, Supt.

J. F. WATKINS, Mine Foreman.

Series No. 313. *Irona No. 2 Mine.*—This mine is located two miles west of Kingwood on the West Virginia N. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by two furnaces, one on the north side and one on the south and is fairly good. The drainage is good. The roof is good, being formed of a hard bone coal in most places. The second opening complies with the law. The coal is hauled out of the mine to the tippie by rope haulage. Blankets and stretchers are kept on hand, and rules posted.

This mine was reported last year as Irona No. 2 Mine, No. 313 of the printed report.

T. R. SPENCER, Supt.

J. F. WATKINS, Mine Foreman.

KINGWOOD COAL COMPANY.

Series No. 315. *Howesville Mine.*—This mine is located on the West Virginia N. R. R. five miles west of Kingwood. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a furnace, and has not always been satisfactory. The

roof is good being a hard sand rock. The drainage and general safety is very good. The powder law is fully observed, and the oil used is of a fair quality. Rules are posted, blankets and stretchers are kept on hand. The coal is undercut by compressed air with the puncher machine, and hauled by mules to mouth of drift; thence by hoisting up an incline two hundred feet to tippie.

This mine was reported last year as Howesville Mine No. 315 of the printed report.

W. B. EDWARDS, Supt.

CHARLES MARTIN, Mine Foreman.

ATLANTIC COAL & COKE COMPANY.

Series No. 316. *Atlantic Mine*.—This mine is located three miles north east of Tunnelton on Pringal's Run. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a sixteen foot fan, and the drainage is fair. The roof is good being of a hard sand rock. The mine has not been in operation in the past year, and I have not inspected same

This mine was reported last year as Atlantic Mine, No. 316 of the printed report.

W. WILLIAMS, Supt.

OAKLAND COAL & COKE COMPANY.

Series No. 317. *Corinth Mine*.—This mine is located at Corinth on the B. & O. R. R., and on Snowy Creek. It is a drift opening operating the Upper Freeport seam partly on the double entry system. There are two openings at this plant, connected under ground. The ventilation is produced by a twelve foot fan, and has never been very satisfactory. Shooting on the solid is practiced to a great extent. The coal from No. 2 opening is lowered down incline some six hundred feet to tippie. I have not inspected this mine for some time, it not being in operation.

This mine was reported as Corinth Mine, No. 317 of the printed report.

S. H. JORDON, Supt.

MERCHANTS COAL COMPANY.

Series No. 318. *Tunnelton No. 1 Mine*.—This mine is located at Tunnelton on the B. & O. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system.

This mine has not been in operation during the past year. This mine was reported last year as Tunnelton Mine No. 318 of the printed report.

T. BARBER, Supt.

Series Nos. 319, 320. *Tunnelton Nos. 2 & 3 Mines*.—These mines are located at Tunnelton on the B. & O. R. R. They are drift openings operating the Upper Freeport seam on the double entry system. The ventilation is produced by a sixteen foot fan, and the ventilation from this fan has only been fair of late; as the headings have been obstructed by the falls

on the air passages. The roof is generally sand rock except in some parts of the mine where it is a soft slate and somewhat dangerous, but it is very well timbered and looked after. The drainage is only fair. The coal of No. 3 comes out at No. 2 opening. This mine was not in operation during the past year on account of a strike at that place. This property has changed ownership in the last few months, the present operators are making considerable improvements in the mines as to ventilation and drainage in the haulways and traveling ways. The second opening meets the requirements of the law. This mine was reported last year as Tunnelton Nos. 2 & 3 Mines, No. 319 of the printed report.

T. BARBER, Supt.

J. W. WATKINS, Mine Foreman.

GORMAN COAL & COKE COMPANY.

Series No. 321. *West End No. 1 Mine.*—This mine is located on the B. & O. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. This mine has not been in operation but very little in the past year. Ventilation is natural, but rather poor. It not being in operation I have not inspected it in the last year.

This mine was reported last year as West End No. 1 mine, No. 321 of the printed report.

T. M. MURPHY, Supt.

B. F. WILLIAMS, Mine Foreman.

Series No. 322. *Gorman No. 2 Mine.*—This mine is located on the B. & O. R. R. near Austen. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a ten foot fan, and is very well distributed throughout the mine. The roof is good being a hard sand rock. Drainage first class, and oil of a fair quality. The second opening meets the requirements of the law. The coal is hauled by mules to the mouth of the opening, and thence lowered by incline to the tippie, a distance of five hundred feet.

This mine was reported last year as No. 2 mine, No. 322 of the printed report.

T. M. MURPHY, Supt.

Series No. 322a. *Gorman No. 4 Mine.* This mine is located near the B. & O. R. R. near Austen, and is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is natural and rather poor. The roof is a hard sand rock, and the drainage is very good. The oil is of a fair quality. This mine is almost worked out, and will be abandoned in the near future. The printed report did not report this mine last year.

T. M. MURPHY, Supt.

AUSTEN COAL & COKE COMPANY.

Series No. 323. *Austen No. 1 Mine.*—This mine is located on the B. & O. R. R., and on Raccoon Creek. It is a drift opening operating the Freeport seam on the double entry system. The ventilation is produced

by a ten foot fan, and is only fair; the air course now being driven and nearly completed will make the ventilation good. The drainage is fair, and the roof is a soft slate, and rather dangerous. The timbering is very well looked after, and the coal is undercut by an electric chain machine, and is hauled to the tippie by electric motor. Blankets and stretchers are kept on hand. Rules posted, and oil of fair quality.

This mine was reported as Austen No. 1 mine, No. 323 of the printed report.

F. W. HORCHLER, Supt.

A. R. MURPHY, Mine Foreman.

Series No. 324. *Austen No. 2 Mine.*—This mine is located on Raccoon Creek, four miles east of Newburg. It is the drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by an eight foot fan, and has always been very good and very well distributed through the mine. The drainage is first-class, and the roof is principally a hard sand rock; but in some sections the roof is a soft slate and very dangerous, but is well looked after and timbered. The powder law is strictly observed, and the oil used is of a fair quality. The second opening meets all the requirements of the Law. Blankets and stretchers are kept on hand, and rules posted.

This mine was reported as Austen No. 2 Mine, No. 324 of the printed report.

F. W. HORCHLER, Supt.

G. R. COOK, Mine Foreman.

HITE COAL & COKE COMPANY.

Series No. 325. *Dixie Mine.*—This mine is located on the B. & O. R. R. and on Raccoon Creek. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a furnace, and has always been very good. Drainage and general safety is very good.

This mine has been in operation but very little in this year, and was not inspected more than twice in this year on that account.

This mine was reported last year as Dixie Mine No. 325 of the printed report.

R. M. HITE, Supt.

R. M. HITE, Supt.

ALFORD FORTNEY, Mine Foreman.

ORR COAL & COKE COMPANY.

Series No. 326. *Vulcan Mine.*—This mine is located four miles east of Newburg on the B. & O. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a twelve foot fan and is fairly good. Drainage is good, and the roof in some parts is sand rock and is good, and in some places is a treacherous slate; but is well timbered. The oil used is of fair quality, and the coal is undercut by compressed air machines of the puncher type. The coal is hauled on the inside my ponies and mules to a side track, and hauled from side track to tippie by rope haulage. The second opening meets the requirements of the law and the law is of a fair quality.

This mine was reported last year as Vulcan Mine, No. 326 of the printed report.

J. M. ORR, Supt.

F. E. DAWSON, Mine Foreman.

HAMILTON COAL & COKE COMPANY.

Series No. 327. *Newburg Shaft*.—This mine is located at Newburg on the B. & O. R. R. It is a shaft 360 feet deep. This company has been operating the Upper Freeport seam on the double entry system 170 feet down the shaft. The ventilation is produced by a 20 foot fan and is very good, and well distributed throughout the mine. The roof is a hard sand rock, and the drainage is fair. This mine liberates some fire damp, and safety lamps are used exclusively; but owing to the good ventilation there is no standing gas found. The company have pumped the water out of this shaft, and are cleaning up the bottom of the shaft, preparatory to working the Lower Kittanning seam. This seam has not been worked for a number of years, this is a very gaseous seam and will require great care to prevent accidents.

J. A. HUSTED, Supt. E. L. GRIFFITH, Mine Foreman.

J. W. GRIMM and WM. MCGINNIS, Fire Bosses

THE MANUFACTURERS COAL & COKE COMPANY.

Series Nos. 328, 329. *Victoria Nos. 1 & 2 Mines*.—These mines are located on Three Fork Creek, one mile north of Hardman on the B. & O. R. R. No. 1, is a drift opening in the Lower Kittanning seam, but has not been operating for the last four years. No. 2 is a slope opening operating the lower Kittanning seam, partly on the triple entry system. The ventilation is produced by a ten foot fan, and fairly good. This mine liberates explosive gas in dangerous quantities and requires very careful handling. Safety lamps are used exclusively, and also shot firers. The roof is very good being a hard slate. The drainage is very good except in some of the haulways. The second opening meets the requirements of the law. This mine has not been in operation since last November owing to a fire, which has been extinguished and the mine is open and ready to resume operation.

These mines were reported last year as Victoria Nos. 1 & 2 Mines, Nos. 328 and 239 of the printed report.

JOHN HUMPHREY, Mine Foreman.

GEORGE PYLES, Fire Boss.

PENNSYLVANIA CONSOLIDATED COAL COMPANY.

Series No. 330. *Shrader Mine*.—This mine is located on Three Fork Creek, one and one-half miles north of Hardman on the B. & O. R. R. It is a drift opening operating the Lower Kittanning seam on the double entry system. This mine has not been in operation for two years.

This mine was reported last year as Shrader Mine, No. 330 of the printed report.

TAYLOR COUNTY.

WINONA COAL & COKE COMPANY.

Series Nos. 333, 334. *Winona Nos. 1 & 2 Mines.*—These mines are located four miles west of Grafton, on the B. & O. R. R. They are drift openings. No. 1 is operating the Mahoning seam on the double entry system, and the ventilation is produced by a furnace and is fairly good. The company is installing an air shaft, and will install a fan in the very near future; which will make the ventilation very satisfactory. It is the intention to ventilate Nos. 1 and 2 with the same fan and air shaft. The roof in No. 1 is a hard slate and is very good, the drainage is good and the oil used is of a fair quality. The powder law is strictly observed; the second opening at present does not meet the requirements of the law.

No. 2 is operating the Upper Freeport seam on the double entry system, the coal in this opening is rather poor quality near the crop, but gets better as the headings are driven in the hill. On my last visit there were but two men, working in this mine driving prospect headings.

These mines were reported last year as Winona Nos. 1 and 2 Mins, Nos. 333 and 334 of the printed report.

M. H. LISTON, Supt.

ADAM WHITEHEAD, and

W. H. HUGHES, Mine Foremen.

BRYDON MINE.

Series No. 337. *Brydon Mine.*—This mine is located six miles west of Grafton on the B. & O. R. R. It is a drift opening in the Pittsburg seam. The ventilation is natural, and poor. This mine has not been in operation but very little in the last year and is closed down at the present time.

This mine was reported last year as Brydon Mine No. 337 of the printed report.

W. S. BRYDON, Supt.

McGRAW COAL COMPANY.

Series No. 338. *New York No. 1 Mine.*—This mine is located at Simpson seven miles west of Grafton on the B. & O. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. There has been a sixteen foot fan installed at this mine in the last year, and the ventilation is very good. The drainage is good, and the roof is slate but is fairly good. The general safety is fairly good. There is quite a number of clay veins encountered in this mine, and whenever these clay veins are encountered there is some explosive gas liberated; but the mine is very carefully looked after as to gas and general safety. The law seems to be complied with, with but very few exceptions. There has been a new electric plant installed in the last year, the coal is gathered with a gathering motor and hauled to the side track, and

then hauled by motor about a mile to the head of an incline where it is lowered by cable six hundred feet to the tippie.

This mine was reported last year as New York Mine No. 1, No. 338 of the printed report.

JOHN MALOY, Supt.

OLIVER JENKINS, Mine Foreman.

GRAFTON COAL & COKE COMPANY.

Series No. 339. *Sand Lick Mine*.—This mine is located on a branch of the B. & O. R. R., near Simpson. It is a drift opening operating the Pittsburg seam. The ventilation is natural and very good. There is a number of rooms driven out to the crop, which makes the circulation of air fairly good. This mine is worked by pick miners exclusively, and the coal is hauled out of the mine by horse power, to the head of an incline, and is then lowered some five hundred feet by cable to the tippie. The roof is fairly good throughout the mine, and the drainage is fair. The haulways are somewhat wet and muddy. The work is principally pillar work, and there are very few rooms being worked. The oil used is of a fair quality, and the second opening meets all the requirements of the law.

This mine was reported last year as Sand Lick Mine No. 339 of the printed report

E. J. FAHEY, Supt.

JOHN MCGRAW, Mine Foreman.

MARYLAND COAL COMPANY.

Series Nos. 340, 341, 342-376. *Wendal Nos. 1, 2, 3, 4 & 5 Mines*.—These mines are located eleven miles west of Grafton on a branch of the B. & O. R. R. near Simpson. They are drift openings operating the Pittsburg seam on the double entry system. No. 1 is ventilated by a seven foot fan, and Nos. 2 and 3 are connected under ground, and are ventilated by a 4½ foot fan. No. 4 is ventilated by a four foot fan. The ventilation in these openings are fairly good, and the coal is undercut by electric machines. The roof is of hard slate and is fairly good. The drainage is very good. On my last visit the crosscuts had not been cut through according to law, and I was compelled to order several men out of their working places on this account. No. 5 is a new opening operated on the double entry system, the ventilation in this mine is natural and very bad. I ordered the men all out of this mine, and informed the Mine Foreman and Superintendent not to operate this mine any more until it was properly ventilated. They promised to comply with my request. The coal from each of these openings is hauled by horse power, over a tram road and dumped over the same tippie. The oil used for illuminating purposes in these mines is of a fair quality. Rules are posted, blankets and stretchers are kept on hand.

These mines were reported last year as Wendel Nos. 1, 2, 3 and 4, of the printed report.

GEO. S. BRACKETT, Supt.

AUGUST RICKER, Mine Foreman.

T. B. DAVIS COMPANY.

Series No. 343. *T. B. Davis Mine.*—This mine is located ten miles west of Grafton on the B. & O. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. The ventilation is produced by a small furnace, and is not satisfactory. This mine has quite a number of rock faults, the drainage and roof is good. The ventilation is bad. I recommended that there be a fan installed at once. The coal is hauled by rope haulage, and the oil used is of a fair quality. The second opening meets the requirements of the Law. This mine was reported last year as T. B. Davis Mine No. 343 of the printed report.

W. B. WOLF, Supt. WM. DRAINER, Mine Foreman.

PITTSVEIN COAL COMPANY.

Series No. 344. *Flemington Nos. 2 and 4 Mines.*—These mines are located at Flemington ten miles west of Grafton on the B. & O. R. R. They are drift openings operating the Pittsburg seam on the double entry system. No. 2 opening is all pillar work and is closed down for some time. These mines have worked but very little in the past year. No. 4 is ventilated by a ten foot fan and is well distributed throughout the mine. The roof and drainage in this mine is fairly good. The oil used is of a fair grade, and the coal is under-cut principally with electric machines, and is hauled with electric motor. The second opening meets the requirements of the law. There has been a new tippie built at this mine in the last year.

This mine was reported last year as Flemington Nos. 2 and 4, Mines No. 344 of the printed report.

J. W. DAVIDSON, Supt. G. R. W. JOHNSON, Mine Foreman.

ROSEMONT COAL COMPANY.

Series No. 345. *Rosemont Mine.*—This mine is located eleven miles east of Clarksburg on the B. & O. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. This mine is ventilated by a furnace and partly by natural ventilation and is very good. On my last visit to this mine I found the conditions very much improved. The drainage is fair, and the roof and timbering are very good. The oil used is of a fair quality. Blankets and stretchers kept on hand and rules are posted, and the second opening meets all the requirements of the law. There has been an electric plant installed at this mine in the last year, the coal is hauled from side track in the mine by electric motor to the head of incline, where it is lowered about eight hundred feet by wire cable to the tippie.

This mine was reported last year as Rosemont Mine, No. 345, of the printed report.

JAMES STARFORD, Supt.

FRANK SAVAGE and OLIVER McINTIRE, Mine Foremen.

CLARKSBURG FUEL COMPANY.

Series No. 346. *Tyrconnell Mine.*—This mine is located eleven miles east of Clarksburg on the B. & O. R. R. It is a drift opening in the Pittsburg seam. This has not been in operation for several years. This mine was reported last year as Tyrconnell Mine, No. 346 of the printed report.

ROBERT LOVE, Sr., Supt.

HARRISON COAL COMPANY.

Series No. 347. *Harrison Mine.*—This mine is located ten miles east of Clarksburg on the B. & O. R. R. It is a drift opening operating the Pittsburg seam on the double entry system. The ventilation is natural and is not satisfactory. On my last visit I found places being worked in advance of air, and I ordered the men out, and ordered the Mine Boss to properly ventilate these places, and put them in a satisfactory condition. The roof is a slate and is fairly good and fairly timbered. The drainage is good, and a fair grade of oil is used. The coal is hauled out of the mine by horse power, and is then lowered down an incline eighteen hundred feet to the tipple.

This mine was reported last year as Harrison Mine, No. 347 of the printed report.

H. G. SMITH, Supt.

DAVID SMITH, Mine Foreman.

MOHAWK SMOKELESS COAL COMPANY.

Series No. 348. *Stone House Shaft.*—This shaft is located six miles south of Grafton on the G. & B. R. R. This mine has not been in operation for the last two years.

This mine was reported last year as Stone House Shaft, No. 348, of the printed report.

OFFICIALS NOT KNOWN.

CECIL COAL & COKE COMPANY, changed to JOHNSON BROS. COAL COMPANY.

No. 349. *Cecil Mine.*—This mine is located seven miles south of Grafton on the G. & B. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. This mine has not been in operation but very little during the past year.

This mine was reported last year as Cecil Mine, No. 349 of the printed report.

W. F. JONES, Supt.

OVERHOLT COAL & COKE COMPANY.

Series No. 350. *Overholt Mine.*—This mine is located seven miles south of Grafton on the West side of the Tygarts Valley river. It is a drift op-

ening in the Upper Freeport seam, but has not been in operation in the last two years.

This mine was reported last year as Overholt mine, No. 350 of the printed report.

BARBOUR COUNTY.

LAUREL CREEK COAL COMPANY.

Series No. 351. *Laurel Creek Mine.*—This mine is located nine miles north of Philippi on the G. & B. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a fire-basket, and is fairly good for the number of men employed throughout the mine. The drainage is very good, and the oil is of a fair grade. The coal is hauled out of the mine by horse power, and is lowered down a short incline to the tippie. Blankets and stretchers are kept on hand and rules are posted.

This mine was reported last year as Laurel Creek Mine No. 351 of the printed report.

W. S. BRYDON, Supt.

C. B. TRIMBLE, Mine Foreman.

TYGARTS RIVER COAL COMPANY.

Series No. 352. *Arden Mine.*—This mine is located eight miles north of Philippi on the G. & R. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a twelve foot fan and is very good. The roof is excellent being a very hard slate and well timbered. The drainage is good, and the oil used is of a fair quality. Blankets and stretchers kept on hand. The coal is undercut by compressed air machines of the puncher type. There has been an electric plant installed at this mine in the last year, and the coal is hauled from side tracks from the inside of the mine to the tippie by electric motor.

This mine was reported last year as Arden Mine, No. 352 of the printed report.

CHAS. A. COOK, Supt. ALF WOODS and GEO. GATTIN, Mine Foremen.

MIDLAND COAL & COKE COMPANY.

Series No. 353. *Midland Mine.*—This mine is located at Hackers Junction on the Berryburg Branch of the G. & B. R. R. It is a shaft opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a ten foot fan and is very good. The drainage is very good and the roof is a hard slate and is excellent and well timbered. The coal is undercut by electric machines, and the oil used is a fair grade. This mine has not worked very steady in the last year, and the principal part of the output is converted into coke. The second opening fully complies with the law aid blankets and stretchers are kept on hand.

This mine was reported last year as Midland mine No. 353 of the printed report.

G. C. LANDIS, Supt.

J. BASFORD, Mine Foreman.

FAIRMONT COAL COMPANY.

Series No. 354. *Berryburg Nos 1 & 2 Mines.*—These mines are located about four miles from Hackers Junction on the Berryburg Branch of the G. & B. R. R. They are drift openings operating the Pittsburg seam on the double entry system. The ventilation in No. 1, is produced by an eleven foot fan, and in No. 2 by a seven foot fan, the ventilation in these openings are very good being well distributed throughout the mine. The drainage is good, but the roof is a soft slate and is very treacherous and well timbered. The oil sold by the operating company is a very good grade. This mine liberates considerable explosive gas in some sections, but is very carefully looked after. The coal is undercut by electric chain machines. Shot firers are employed and safety powder used exclusively. The fan in No. 2 has been installed in the last year, and the coal from each of these openings are hauled by electric motors, and dumped over the same tippie. The second opening in this mine meets all the requirements of the law.

This mine was reported last year as Berryburg Mine, No. 354 of the printed report.

W. W. FURGUSON, Supt.

LEE COTTRELL, Mine Foreman No. 1.

P. L. DILLON, Fire Boss No. 1.

ERNEST LOVE, Mine Foreman No. 2.

A. A. SHAW, Fire Boss, No. 2.

THE MERIDEN COAL MINING COMPANY.

Series Nos. 355-6-7&8. *Meriden Nos. 1, 2, 3 & 4 Mines.*—These mines are located one and one-half miles north of Philippi on the G. & B. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system, these openings are all connected under ground, and are ventilated by a sixteen foot fan and the ventilation is fairly good. The drainage is good. The roof is a hard slate and is excellent. These mines are very dry and dusty, the dust on my last visit was being hauled out and the rooms and headings properly watered. The coal is undercut with electric chain machines and hauled by electric motor to the tippie. The oil used is of a fair quality, and the powder law is fully complied with. The second opening meets with the requirements of the law. This mine has not worked but very little in the last year.

This mine was reported last year as Philippi Collieries Company Nos. 1 & 2 Mines, Nos. 355 and 356 of the printed report.

LEE J. SANDRIDGE, Supt.

G. B. MIRES, Mine Foreman.

Series No. 359. *Meriden No. 5 Mine.*—This mine is located one and one-half miles north of Phillippi. It is a drift opening operating the Mahon-

ing seam on the double entry system. This mine has not been in operation during the last year.

This mine was reported last year as Meriden No. 5 Mine, No. 359 of the printed report.

LEE J. SANDRIDGE, Supt.

GRAFTON FUEL COMPANY.

Series No. 360. *Lillian No. 1 Mine.*—This mine is located five miles north of Philippi on the G. & B. R. R. It is a drift opening operating the Mahoning seam on the double entry system, the ventilation is produced by a fire-basket, and is not very good. The roof is excellent being a very hard slate, timbering is fair and the coal is undercut by machines of the puncher type. The oil used is a fair quality, and the coal is hauled by horses to the head of an incline, then lowered by a wire rope to the tippie, and the second opening meets the requirements of the law.

This mine was reported last year as Lillian No. 1 Mine, No. 366 of the printed report.

W. S. BRYDON, Supt.

F. V. ROBINSON, Mine Foreman.

Series No. 361. *Lillian No. 2 Mine.*—This mine is located at Lillian on the G. & B. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a fire-basket, and has not been very satisfactory. The coal is very faulty and dirty, the drainage is good and the roof is fairly good. Shooting on the solid is practiced to some extent, and the second opening meets the requirements of the law.

This mine was reported last year as Lillian No. 2 Mine, No. 361 of the printed report.

W. S. BRYDON, Supt.

F. V. ROBINSON, Mine Foreman.

Lillian No. 3 is a drift in the Lower Freeport seam and is abandoned. It was reported last year as Lillian No. 3 Mine, No. 362 of the printed report.

W. S. BRYDON, Supt.

PENNSYLVANIA FUEL COMPANY.

Series No. 363. *Volga No. 1 Mine.*—This mine is located two miles from Lemley Junction on the Buckhannon Branch of the G. & B. R. R. It is a shaft but has not been in operation for the last year.

This mine was reported last year as Volga mine No. 1, No. 363 of the printed report.

THE CENTURY COAL COMPANY OF WEST VIRGINIA.

Series No. 364. *Century No. 2 Mine.*—This mine is located four miles from Lemley Junction on a Branch of the Buckhannon R. R. It is a drift opening operating the Red Stone seam on the double entry system.

The ventilation is produced by a furnace and is only fair. The drainage is good, the roof is fairly good being rather hard slate and well timbered. The oil used is of a fair grade. This mine will be connected under ground in the near future with No. 1. The second opening fully complies with the law.

This mine was reported last year as Century No. 2 Mine, No. 364 of the printed report.

ED. WILLIAMS, Asst. Supt.

GARFIELD MONDAY, Mine Foreman.

Series No. 365. *Century No. 1 Mine.*—This mine is located five miles from Lemley Junction on the Buckhannon Branch of the G. & B. R. R. It is a shaft opening operating the Red Stone seam on the double entry system. The ventilation is produced by a thirteen and one-half foot fan and is very good, there are three main splits in the ventilating current, with some twenty sub-splits; each set of headings are ventilated by separate and distinct currents of fresh air from the down cast. The stoppings on the main inlets are all built of cement, and in good condition. The drainage is fair, and the roof is fairly good. The oil used is a fair quality, and the coal is undercut with electric machines (principally) and hauled to the bottom of the shaft by electric motors; this liberates some explosive gas, but is carefully looked after.

This mine was reported last year as Century No. 1 Mine, No. 365 of the printed report.

ED. WILLIAMS, Asst. Supt.

A. B. McMURDO, Mine Foreman.

JOHN POKAS,

JOHN DONAHUE,

ADAM ROSCAIRICK, Mine Foremen.

THE PENNSYLVANIA COAL & MINING COMPANY.

Series No. 366. *Adma Mine.*—This mine is located nine miles south of Philippi. It is a drift opening, but has not been in operation for the last two years. Officials unknown.

This mine was reported last year as Adma Mine, No. 366 of the printed report.

CLEMENTS COAL & COKE COMPANY.

Series No. 367. *Clements Mine.*—This mine is located twelve miles south of Philippi on the G. & B. R. R. It is a drift opening, but has not been in operation for the last two years.

This mine was reported last year as Clements Mine, No. 367 of the printed report.

VALLEY COAL & COKE COMPANY.

Series No. 368. *Valley Mine.*—This mine is located one and one-half miles north of Belington on the B. & N. R. R. It is a drift opening but has not been in operation for the last two years. Officials unknown.

This mine was reported last year as Valley Mine, No. 368 of the printed report.

MILLER COAL & COKE COMPANY.

Series No. 369. *Sarah Mine.*—This mine is located about three-quarters of a mile south of Junior on the W. M. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a 14 foot fan, and is very good, the drainage is good, and the roof is a hard slate and is good. Timbering is fairly good, and the oil used is of a fair grade. The coal is undercut with picks, and is hauled by motor to the tippie. The second opening meets the requirements of the law.

This mine was reported last year as Sara Mine, No. 369 of the printed report.

J. W. S. MILLER, Supt.

H. C. HASKINS, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 370. *No. 4 or Dartmoor Mine.*—This mine is located three miles south of Belington on the W. M. R. R. It is a drift opening operating the Upper Freeport seam, but has not been in operation for the last two years.

This mine was reported last year as No. 4 or Dartmoor Mine, No. 370 of the printed report.

W. W. BREWER, Supt.

Series No. 371. *No. 3 Mine.*—This mine is located seven miles south of Belington, on the Belington and Beaver Creek R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a twelve foot fan and is good; this fan had been installed in the last year. The roof and drainage is good, and general safety is fair. The second opening meets all the requirements of the law. Rules in several languages are posted.

This mine was reported last year as No. 3 Mine, No. 371 of the printed report.

W. W. BREWER, Supt.

J. H. DAVIS, Mine Foreman.

DAVIS COLLIERY COMPANY.

Series No. 372. *Junior No. 1 Mine.*—This mine is located at Junior on the W. M. R. R. It is a drift opening in the Upper Freeport seam. This mine has not been in operation in the last year, and has not been inspected.

This mine was reported last year as Junior No. 1 Mine, No. 372 of the printed report.

W. BLOCKSEDGE, Supt.

HUMPHREY COLLIERY COMPANY.

Series No. 374. *Humphrey Colliery*.—This mine is located at Philippi on the G. & B. R. R. It is a drift opening operating the Upper Freeport seam on the double entry system. The ventilation is produced by a fan and is fairly good. The drainage is good and the roof is a slate and is fairly good. This is a new operation; they shipped their first coal about November, 1908.

This mine was not reported last year.

A. N. HUMPHRY, Supt.

ARNETT LOVE, Mine Foreman.

LUELLA COAL COMPANY.

Series No. 375. *Luella Mine*.—This mine is located at Arden on the G. & B. R. R. It is a drift opening operating in the Freeport seam. This is a new operation, but they have been working but a very little. They shipped their first coal about January, 1909, the officials are unknown to me, as I failed to find any one about the mine on my visit there in June, 1909. This mine was not reported last year.

J. J. ROBINSON, Supt.

FOURTH DISTRICT.

GENERAL SUMMARY OF THE FOURTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYEES.								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Grant -----	3	--	37	90	32	54	213	36	----	36	249	177,406	-----
Mineral -----	24	5	646	33	6	87	772	107	----	107	879	745,658	-----
Randolph -----	8	1	361	-----	-----	81	442	60	96	156	598	463,206	149,602
Tucker -----	13	3	719	76	10	295	1,100	146	110	256	1,356	1,005,873	116,940
Totals--	48	9	1,763	199	48	517	2,527	349	206	555	3,082	2,392,143	266,542

OFFICE OF THE FOURTH DISTRICT MINE INSPECTOR.

Flemington, W. Va., June 25th, 1909.

MR. JOHN LAING,

Chief of the Department of Mines,

Charleston, W. Va.

DEAR SIR:—In compliance with your request of recent date, I herewith submit my annual report, for the fiscal year ending June 30th, 1909.

Permit me to say that while I have sincerely labored and earnestly insisted upon a full compliance with the law to better the condition of the mines in the fourth district, and while I have failed to get the assistance of yourself in some oil prosecutions, nevertheless, it is gratifying to me to be able to report wonderful improvements in the conditions of nearly every single mine in the district as evidenced by the great expenditure of money for improvements, especially by the Davis Coal & Coke Company, who own and operate about one-half of the mines in this district.

By strictly enforcing the law during my incumbency of this office for the year 1908 I have had very little trouble during this year. I have had the full co-operation of the operators, miners and the officials of the law, and also the general public.

I have directed my attention particularly to the care and general safety of the employes under ground, by more systematical care of the roof of the mines, and the handling of mine cars, and the use of explosives.

I am greatly pleased by what has been accomplished, along this line.

There has not been a single fatal accident for the past five months, and very few non-fatals.

My associations with the operators, miners and mine officials have been of the most pleasant nature, and I hereby extend to them my sincere thanks for their co-operation and assistance in the work.

I sincerely regret that my relations with you have not been so genial as they should have been.

Respectfully yours,

J. A. SPRINGER, D. M. I.

CONDITION OF THE MINES IN THE FOURTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz: 430 indicates the Fourth District and number 30 mine.

RANDOLPH COUNTY.

DAVIS COAL & COKE COMPANY.

Series No. 401. *Weaver No. 1.*—This mine is located on a branch of the W. M. R. R. six miles from Belington, on Beaver Creek. It is a drift mine operating what is now called the Lower Kittanning seam of coal. The mine is operated on the double entry system, and is in splendid condition. Ventilation is produced by a 12 ft. Robinson fan, and is well distributed throughout the mine. Drainage, roof and timbering are good. I found a disposition upon the part of the management to fully comply with the law.

WALTER BREWER, Supt.

HARLEY DAVIS, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 402. *Weaver No. 2.*—This mine is located on a branch of the W. M. R. R. six miles from Belington. It is a drift mine operating the Lower Kittanning seam. This mine is worked on the double entry system. The coal is eight and one-half feet thick and of good quality. Ventilation is produced by a twelve-foot fan, which is giving good results. During the past year this mine has been greatly improved, by the building a number of solid stoppings, two overcasts, and a general cleaning up of the roadways. A new haulage rope was recommended, and by this time is installed. Drainage is good and well looked after. Roof is good. The second opening complies with the law. I found everything that the law requires at the mine. A fair quality of oil is used.

WALTER BREWER, Supt.

G. W. BURKE, Mine Foreman.

DAVIS COLLIERY COMPANY.

Series No. 404. *Coalton No. 1.*—This mine is located on Roaring Creek,

and the Coal & Coke R. R. five miles from Roaring Creek Junction. It is a drift mine operating the Lower Kittanning seam. It is worked on the double entry system, and is a splendid mine. It is ventilated by a twenty ft. Robinson fan, and does splendid work. This mine has been greatly improved during the past year by replacing old wooden stoppings by up to date concrete. The mine has otherwise been much improved by making good, well lighted manways, and many other improvements, which enables the management to conduct their mine in an up-to-date manner. I found everything the law requires on the ground and I desire to congratulate the management on their method of running mines. •

F. C. CORNET, Supt.

W. F. RILEY, Mine Foreman.

W. H. GREEN.

Series No. 405. *Klondyke No. 1.*—This mine is located on Roaring Creek and on a branch of the Coal & Coke R. R. seven miles from Roaring Creek Junction. It is a drift mine operating the Lower Kittanning seam, worked on the double entry system, ventilated by a furnace, which only gives fair results. I recommended the installation of a good fan, which the operator agreed to erect as soon as possible. Drainage and roof are good. The second opening meets law requirements. A good grade of oil was in use. I found a disposition upon the part of the operator to fully comply with the law.

W. H. GREEN, Supt. and Mine Foreman.

DAVIS COLLIERY COMPANY.

Series No. 406. *Sivad No. 2.*—This mine is located on a branch of the Coal & Coke R. R. one mile from Roaring Creek Junction. This is a drift mine operating the lower Kittanning seam. The mine has been very much improved during the past year. In my last year's report this mine was not being worked as the law requires; but I am pleased to say that the management has complied with the law by making the second opening since that time. When last inspected by me this mine was found in fair condition. It is ventilated by furnace which gives good results at this time, but a fan should be installed. Roof is good and drainage fair. This mine has been closed down for several months. When last inspected was in fair condition.

JOSEPH HOYLMAN, Supt. and Mine Foreman.

Series No. 408. *Savad No. 5.*—This mine is located on the Coal & Coke R. R. near Roaring Creek Junction, operating the Lower Kittanning seam, on the double entry system. This mine has been greatly improved since my last annual report, better ventilation, drainage and second openings, made available. Roof is rather dangerous by reason of being so close to outcrop, but is being carefully looked after.

JOSEPH HOYLMAN, Supt. and Mine Foreman.

Series No. 407. *Harding No. 3.*—This mine is located at Harding, W.

Va. on the W. M. R. R. It is a drift opening operating the Lower Kittanning seam, worked on the double entry system. Ventilation is produced by a ten foot fan, run by an electric motor, and when I made my first inspection during the year 1908 the power was taken off the trolley wire, which I promptly ordered changed, and it is now being run by direct line from power house. The ventilation in this mine at this time is good. Drainage, roof and timbering are good. Second opening meets the law requirements. A fair grade of oil was in use. All other requirements of the law were found at the mine. This mine was found in splendid condition when last inspected by me.

W. S. WILSON, Supt. and Mine Foreman.

TUCKER COUNTY.

CUMBERLAND COAL COMPANY.

Series No. 409. *Douglas No. 5.*—This mine is located at Douglas, W. Va., on the W. M. R. R. and is a drift opening, operating the Lower Kittanning seam on the double entry system. This mine is ventilated by a twenty foot fan, which furnishes an abundance of air, and since my last annual report has been very much improved by the building of an overcast, and quite a number of solid stoppings which are now giving splendid satisfaction. Drainage has been greatly improved during the year. The roof of this mine is rather treacherous, and requires careful watching, and to the credit of the company is being well taken care of. I found everything on the ground that the law requires, except the quality of oil which seems to be of an inferior grade.

J. B. JENKINS, Supt.

A. I. JENKINS, Mine Foreman.

Series No. 410. *Nos. 1, 4 & 5 Mines.*—These mines are located at Douglas on the W. M. R. R., operating the Lower Kittanning seam, on the double entry system. They are model little mines, and is the pride of Mr. Jenkins, the Superintendent, who has taken great care to have everything up-to-date and I must say succeeded admirably with the exception of not having a good fan, which I deem necessary, before everything can be complete in a model mine. The mine is ventilated by a furnace, which gives very good satisfaction for the present. The coal is taken from the mine to the tipple with a steam engine on a tram road one half mile.

J. B. JENKINS, Supt.

RICHARD JENKINS, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 411. *Thomas No. 25 Mine.*—This mine is located at Thomas, on the W. M. R. A. It is a drift opening operating the Upper Freeport seam on the double entry system. Ventilation is produced by an eighteen foot fan, which produces splendid results. The ventilation of this mine is well looked after, and on my last visit was in good shape. This mine liberates considerable gas, but is very closely watched by the officials of the company, on account of unnatural conditions. Solid shooting is some-

times discovered by the Inspector, and when so discovered, was forbidden by him. The drainage, roof and timbering are good.

L. S. McDOWELL, Supt.

W. B. RIGGLEMAN, Mine Foreman,
ARTHUR STEWARD and
JOT GOLDIA, Fire Bosses.

Series No. 412. *Pendleton Run Mine.*—This mine is located at Thomas, on the opposite side of the mountain operating the Upper Freeport seam, on the double entry system. Drainage is bad, roof of a dangerous nature. The coal in this mine has never proven satisfactory, therefore the mine has been somewhat neglected. However, since my last annual report a good fan has been installed, and other improvements made, the coal from this mine is hauled through No. 23 mine and dumped off same tipple on W. M. R. R. at Thomas.

L. S. McDOWELL, Supt.

W. F. REAVES and ROBT. STEWART,
Mine Foremen.

Series No. 413. *Thomas No. 23 Mine.*—This mine is located at Thomas, on the W. M. R. R., operating the Upper Freeport seam on the double entry system. The ventilation is produced by an eighteen foot fan, which is now giving splendid results. This mine was reported last year as being in a very unsanitary condition, has been very greatly improved by building a large number of solid stoppings, straightening air courses; now it has splendid ventilation. Drainage in good condition, roof is fine, doors in good shape. Electric wires and everything conducive for general safety is well looked after. As reported in my last annual report, the practice of taking whole kegs of powder and the use of kerosene oil has been entirely stopped. The officials at this mine have done heroic work to bring this mine up to the standard, and deserve credit for so doing. The company has spent considerable to improve this mine during the year.

L. S. McDOWELL, Supt.

W. F. REAVES and ROBT. STEWART,
Mine Foremen

DAVIS COAL & COKE COMPANY.

Series No. 414. *Thomas No. 3½ Mine.*—This mine is located at Thomas, on the W. M. R. R. It is a shaft mine 187 feet deep operating the Lower Kittaning seam, on the double entry system. No. 34 was reported last year as being in very bad condition. I am pleased to say has been greatly improved, although not yet meeting law requirements. A splendid new fan has been installed, costing \$7,336.00. Pumps, costing approximately \$5,000.00. Solid stoppings, doors, overcasts and many other improvements on the inside have been made. Ventilation has been improved. Roof is being better looked after. The general safety of the mine has been improved. The lack of sufficient pumps during the first part of the year, has hindered the work of improvement, but with the installation of new pumps, it will not be long until this mine should be in good condition. There has been a large expenditure of money on the outside at this plant. New head frame, bin, conveyer, box car

loader, new boiler house, five new boilers, one 500 K. W. Turbine and generator, in all costing something like \$40,000.00.

L. S. McDOWELL, Supt.

SAMUEL HAWKSHAW, Mine Foreman.

Series No. 415. *Coketon No. 36 Mine.*—This mine is located at Coketon on the W. M. R. R. It is a drift mine operating the Lower Kittanning seam on the double entry system. Ventilation is produced by a fifteen foot fan. This mine was also reported by me in my last annual report as being in very poor condition, but I am pleased to say that very great improvement has been made at this mine. Ventilation has been very much improved by the building of solid stoppings, cleaning old air courses, shortening the traveling of the air, until ventilation is in a fair condition. Drainage has been improved, electric wires and roadways greatly improved. The roof is being well looked after. The output of this mine has been largely increased.

M. L. GARVEY, Supt.

JAMES CHRISTOPHER, Mine Foreman.

Series No. 416. *Coketon No. 26 Mine.* This mine is located at Coketon on the W. M. R. R. and is a drift opening operating the Upper Freeport seam, on the double entry system. Ventilation is produced by a fifteen foot fan, and is giving very good satisfaction. The drainage in this mine has not had the attention it should. The roof in some parts of the mine is very dangerous, but is pretty well looked after. The second opening meets the law requirements. Blankets, stretchers, etc., were found at the mine.

M. L. GARVEY, Supt.

JAMES LAKE, Mine Foreman.

Series No. 417. *Coketon No. 37 Mine.* This mine is located at Coketon on the W. M. R. R. and is a drift opening operating the Lower Kittanning seam, on the double entry system. Ventilation is produced by a ten foot exhaust fan. This mine was reported by me last year as being in a very bad condition, but I am pleased to report that many changes have taken place since then. The coal company was fortunate in securing the services of a competent mine foreman, who has revolutionized the entire mine, removed all bad timbering, and all loose slate and dangerous rock, that was reported as being dangerous in my last report, changed the air courses, built overcasts, and in many ways improved this mine until it is in very good condition. This mine had almost been abandoned previous to the coming of Mr. Brennan, the mine foreman, but now the mine is able to get out considerable coal. This only shows the great need of better inside managers, in the mines of this state.

M. L. GARVEY, Supt.

P. J. BRENNAN, Mine Foreman.

Series No. 418. *Coketon No. 35 Mine.* This mine is located at Coketon on the W. M. R. R. and is a drift opening operating the Lower Kittanning seam on the double entry system. This mine was reported in my last annual report as being in a very unsanitary condition. I am only able to report that some improvements have been made, but not what should

have been done. I am informed that this mine will soon be abandoned, and the remaining coal, taken out through No. 36 mine.

At those five mines considerable improvements have been made during the year. The aggregate outlay amounting to something over \$3,500.00.
M. L. GARVEY, Supt. JAMES CHRISTOPHER, Mine Foreman.

BEACON COAL & COKE COMPANY.

Series No. 419. *Beacon Mine*.—This mine is located five miles east of Davis, W. Va., on a branch of the W. M. R. R. It is a drift opening operating the Lower Kittanning seam on the Double entry system. Ventilation is produced by a fourteen foot fan and was fairly good.

W. C. PATTERSON, Supt.

ALEX CLOSE, Mine Foreman.

GRANT COUNTY.

GATZMER COAL COMPANY.

Series No. 420. *Gatzmer No. 1 Mine*.—This mine is located on a lumber road seven miles from Dobbin, W. Va. It is a drift opening operating the Kittanning seam on the double entry system. Ventilation is produced by a furnace, and does not give very good results. This mine has not been running but very little during the year, and I have been unable to inspect said mine but once.

L. D. GASTIGER, Supt.

ALEX WADDELL, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 421. *Henry No. 22 Mine*.—This mine is located at Henry, W. Va. on the W. M. R. R. and on the north branch of the Potomac River. This is a shaft mine 198 feet to the coal, operating the Upper Freeport coal on the double entry system. Ventilation is produced by a 12 foot fan, which only gives fair results, as this mine has a large territory to travel over, and also because of choked condition at bottom of shaft. Drainage and roof are good. This mine liberates some gas, but is being carefully watched, by mine foreman. Safety catches and machinery about the shaft appear to be in fair condition.

W. J. CHRISTOPHER, Supt.

M. V. MANLY, Mine Foreman.

Series No. 422. *Henry No. 33 Mine*.—This mine has been closed down since I have been in the district. It is a shaft mine 419 feet to the coal, Lower Kittanning measure.

W. J. CHRISTOPHER, Supt.

BUFFALO CREEK CUMBERLAND COAL COMPANY.

Series No. 423. *Buffalo Creek No. 1 Mine*. This mine is located one mile south of Bayard, W. Va. on a branch of W. M. R. R. on Buffalo Creek. It is a drift mine operating the Lower Kittanning seam on

the double entry system. Ventilation is produced by a fifteen foot fan and produces good results. The roof is fairly good and well timbered. The second opening meets with the law requirements. Blankets, stretchers, etc., found at the mine. This mine has not been running very regular during this year.

R. D. WADDELL, Supt. and Mine Foreman.

COTTAGE STREET COAL COMPANY.

Series No. 424. *Cottage Street No. 1 Mine.*—This mine is located at Bayard, W. Va., on W. M. R. R., is operating the Upper Freeport seam on the double entry system, and is a small mine, ventilated by a furnace, and has only been inspected by me once this year. The ventilation was sufficient as but only a few miners were working at the time. Drainage is good. Roof needs careful watching.

JOHN JOSE, Supt.

C. C. CHENOWETH, Mine Foreman.

MINERAL COUNTY.

DAVIS COAL & COKE COMPANY.

Series No. 425. *Tyson No. 10 Mine.*—This mine is located at Elk-Garden on a branch of W. M. R. R., seven miles from Harrison, W. Va. It is a drift opening operating the Tyson seam on the double entry system. Drainage has been greatly improved during the year. Roof is bad but well timbered. Ventilation is produced by a furnace, which gives splendid results. The requirements of the law are fully met.

ROBERT GRANT, Supt.

B. S. COLEMAN, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 426. *Elk-Garden No. 6 Mine.*—This mine is located at Elk-Garden on a branch of W. M. R. R. seven miles, from Harrison, W. Va. It is a drift opening the Big Pittsburg seam. The work in this mine consists in drawing pillars and stumps preparatory to abandonment. Ventilation is produced by a fifteen foot fan, and is good. Roof is of dangerous nature but is well looked after. The requirements of the law are fully met at this mine.

ROBERT GRANT, Supt.

F. WILSON, Mine Foreman.

Series No. 427. *Ott No. 20 Mine.*—This mine is located near Elk-Garden on the W. M. R. R. it is a drift opening operating the Lower Kittanning seam, on the double entry system. Ventilation is produced by a fifteen foot fan. It is a good one but distribution of the current has not had the attention it should have had. Some improvements have been made during the year. This mine liberates some gas, and the mine is very dry in some sections, and considerable dust is found in the mine, which is high in volatile matter, therefore very dangerous. Drainage is in fair condition. Roof is rather dangerous, but fairly well looked after.

Timbering in fair condition. Stoppings and doors are not in good condition. Stretchers, blankets, safety lamps, etc., were found at the mine.
ROBERT GRANT, Supt. L. D. VAUGHN, Mine Foreman.

Series No. 428. *Wabash No. 9 Mine*.—This mine is located on Elk-Garden branch of W. M. R. R. four miles from Harrison, W. Va. It is a drift opening the big Pittsburg seam. The work in this mine consists in drawing pillars and stumps. Ventilation is natural, and is sufficient. The roof is of a dangerous nature, but is carefully looked after. In connection with the operation of this mine a new opening has been made, which is now producing considerable coal. Ventilation in the new drift is natural and only fairly good. Drainage is good. All other requirements of the law are fully met.
ROBERT GRANT, Supt. JACOB OTT, Mine Foreman.

Series No. 429. *Kittanning No. 15 Mine*.—This mine is located on Elk-Garden branch of W. M. R. R. two miles from Harrison, W. Va., and on Abrams Creek. It is a drift opening operating the Kittanning seam on the double entry system. This mine is ventilated by furnace and only gives fair results. Roof is fairly good. Timbering in good shape when last inspected. This mine has not been working but very little during the past year.
ROBERT GRANT, Supt. JOHN KILROY, Mine Foreman.

ABRAMS CREEK COAL & COKE COMPANY.

Series No. 430. *Oakmont No. 1 Mine*.—This mine is located on the Elk-Garden branch of the W. M. R. R. one mile from Harrison, W. Va., and on Abrams Creek. It is a drift opening operating the Upper Freeport seam, on the double entry system. Ventilation is produced by an eight foot Stine fan. The ventilation of this mine has been materially improved during the past year by building an overcast and splitting the air current, enabling air to reach working face by shorter course. Drainage is fair. Roof is of a dangerous nature, but is fairly well looked after. Parts of this mine are very dry and care should be exercised during the cold months especially not to permit dust to accumulate in large quantities. The requirements of the law are being met by this company.
THOMAS MACKEY, Supt. and Mine Foreman.

MASTELLER COAL & COKE COMPANY.

Series No. 433. *Hampshire 4 Foot Mine*.—This mine is located at Hampshire, on the W. M. R. R. It is a drift opening operating the Four Foot seam on the double entry system. Ventilation is produced by a ten foot fan, which at this time is greatly hampered by reason of air courses being filled up. Drainage is fairly good. Doors, and stoppings only fair. This is an old mine and will soon be worked out. Stretchers, blankets, etc., will be found at the mine.
J. C. WATSON, Supt. GRANT HARSHBURGER, Mine Foreman.

DAVIS COAL & COKE COMPANY.

Series No. 434. *Kittanning No. 1½ Mine*.—This mine is located on the Elk-Garden branch of the W. M. R. R. one mile from Harrison and on Abrams Creek. It is a drift opening operating the Upper Freeport seam on the double entry system. The mine and tippie are connected by an incline plane 650 ft. long. Ventilation is produced by a fifteen foot fan, which is giving good results. Drainage is good, roof and timbering are good. Parts of this mine are very dry and should be carefully watched. Considerable improvements have been made at this mine during the year in the way of solid stoppings, etc., I found all requirements of the law at this mine.

ROBERT GRANT, Supt.

F. C. PATTON, Mine Foreman.

SMITH COAL COMPANY.

Series No. 435. *Smith No. 1 Mine*.—This mine is located near Blaine, W. Va. on the W. M. R. R. It is a drift opening operating the Lower Kittanning seam on the double entry system. Ventilation is produced by a twelve foot fan, and is good and well distributed. Drainage is good. The roof is good except in certain sections, it is well looked after. Blankets, stretchers, etc., and all the requirements are being fully complied with. The mine is connected to tippie by plane 500 feet long.

R. A. SMITH, Supt.

JOHN ROWLAND, Mine Foreman.

GLEASON COAL & COKE COMPANY.

Series No. 436. *Gleason No. 2 Mine*.—This mine is located on the W. M. R. R. at Gleason. It is a drift opening operating the Lower Kittanning seam on the double entry system. Ventilation is produced by an eight foot Stine Fan, which gives good results, but the neglect in not building solid stoppings greatly hinders the ventilating current, and otherwise interferes with the sanitary condition of the mine. Drainage is in fair condition. Roof is good, second opening meets the requirements of the law.

J. M. DAVIS, Supt.

R. STOTTLEMIER, Mine Foreman.

GLEASON COAL & COKE COMPANY.

Series No. 437. *Gleason No. 1 Mine*.—This mine is located at Gleason on the W. M. R. R. but has been idle during the past year, therefore not inspected by me.

J. M. DAVIS, Supt.

DAVIS COAL & COKE COMPANY.

Series No. 438. *Montgomery Run No. 19 Mine*.—This mine is located on the W. M. R. R. and on Montgomery Run. It is a drift mine operating the Lower Kittanning seam, on the double entry system. Ventilation

is produced by a ten foot fan which gives splendid results, and is well distributed throughout the mine. Drainage, roof and timbering are good. Considerable improvement has been made at this mine during the year by building betting stoppings, and carefully protecting the electric wires in the mine. All other requirements of the law are fully met.

O. TIBBETS, Supt. J. A. TIBBETS, Mine Foreman.

Series No. 439. *No. 50 Mine.*—This mine is located on Montgomery Run, near W. Va., Junction, on the W. M. R. R. It is a drift mine operating the Four Foot seam on the double entry system. Ventilation is produced by a ten foot fan, which makes plenty of air, and is now very well distributed to working face. All stoppings have been improved during the year. Drainage is good. Roof fair and well timbered. Requirements of the mine law are fully complied with.

O. TIBBETS, Supt. J. A. TIBBETS and
JOHN SWADLEY, Mine Foremen.

Series No. 440. *No. 51 Mine.*—This mine is located on Montgomery Run near West Virginia Junction, and on the W. M. R. R. It is a drift mine operating the Four Foot seam, on the double entry system. The ventilation is produced by a 12 foot fan, which was installed during the past year. This mine has been very much improved in the past year by building overcasts, repairing stoppings, and other improvements. All requirements of the mine law were found at this mine.

O. TIBBETS, Supt. J. A. TIBBETS and
JOHN SWADLEY, Mine Foremen.

BIG VEIN COAL COMPANY OF WEST VIRGINIA.

Series No. 441. *Shaw 1/4 Foot.*—This mine is located eleven miles from Piedmont. It is a drift mine operating the Four Foot seam on the double entry system. Ventilation is produced by an eight foot fan which gives very good results. Drainage is good. Roof and timbering fair. This mine has worked but very little during the past year, and has been inspected by me but once since my last annual report. All instruments required by law have been provided.

ONA BALLS, Supt. WILLIAM VISTS, Mine Foreman.

DENMAN COAL COMPANY.

Series No. 433. *Denman No. 3 Mine.*—This mine is located on branch of W. M. R. R. four miles from Harrison, and on Abram Creek. It is a drift opening operating the Upper Freeport seam on the double entry system. It is ventilated by a poorly constructed furnace, which was insufficient for the mine. A good fan was recommended by me, but the mine closed down and has not been running during the latter part of the year. Drainage was in fair condition. Coal is very low and hard to produce.

THOMAS TAYLOR, Supt. W. S. SEAMAN, Mine Foreman.

WESTERN MARYLAND COAL COMPANY.

Series No. 446. *Blaine Nos. 2, 3 & 4 Mines*.—These mines are located at Blaine, W. Va., on the W. M. R. R. They are drift mines operating the Kittanning seam, on the double entry system. Ventilation is natural and not very satisfactory. A fan was recommended by me when I first inspected this mine. The company was just opening the mine and was not yet ready to place any mechanical means for ventilation. The three openings are being driven separate from each other, and when further developed may be connected. This mine has been inspected but once.

S. B. BRYDEN, Supt. F. J. BELL, Mine Foreman.

RANDOLPH COUNTY.

DAVIS COAL & COKE COMPANY.

Series No. 403. *Leiter No. 5 Mine*—Has been idle during the year and I am informed has been abandoned.

TUCKER COUNTY.

Series No. 419. *Beacon No. 1 Mine*—Has been partly idle during the year, therefore not inspected.

MINERAL COUNTY.

Series No. 431. *Karr No. 1 Mine*—Has been idle during the year.

Series No. 432. *Virginia No. 2 Mine*—Has been idle during the year.

Series No. 444. *Sarah No. 1 Mine*—Has been idle during the year.

Series No. 445. *New Creek*—Has been idle during the year.

The above mines except Beacon have been idle during the year, therefore have not been inspected by me.

J. A. S.

FIFTH DISTRICT.

GENERAL SUMMARY OF THE FIFTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYES,								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240	Tons of 2,000
												lbs.)	lbs.)
Braxton	5		78			13	91	9		9	100	93,024	
Clay (part)	2		21	28	4	8	61	6		6	67	21,333	
Gilmer	1		25			3	28	2		2	30	14,740	
Fay'te (prt)	13	3	357	821	108	534	1,820	192	174	366	2,186	1,442,436	184,811
Kana. (prt)	39	3	372	903	179	423	1,877	306		306	2,183	1,131,640	
Mason	7	1	150	45	8	34	237	34		34	271	106,802	
Putnam	11	3	604	20	4	171	799	206		206	1,005	378,420	
Totals..	78	10	1,607	1,817	303	1,186	4,913	755	174	979	5,842	3,188,395	184,811

OFFICE OF FIFTH DISTRICT MINE INSPECTOR,
Clifton, W. Va., July 6th, 1909.

HON. JOHN LAING,

Chief of the Department of Mines,
Charleston, W. Va.

DEAR SIR:—I herewith respectfully submit to you my Annual Report as Inspector of the fifth mining District of West Virginia, for the year ending June 30, 1909.

During the year, the coal business throughout the District has not been very prosperous—a large per cent of the mines being operated only about half the time and a few being idle during the entire year. The principal improvement made this year has been the construction of substantial stoppings and overcasts to better the system of ventilation. Owing to the depression in the coal business, there have been no new developments.

The natural condition of the mines throughout the Fifth District are favorable to operation with general safety to employes as none of the mines liberate explosive gas in dangerous quantities, only a few of them are dusty to the extent of requiring watering; and by far the greater number have roofs of excellent quality. Moreover, only a small per cent of the miners are non-English speaking, the remainder, as a rule, being experienced, practical workmen, who are willing to be governed

by the requirements of the State Mining Law, or any instructions issued by the Department of Mines. In my opinion, our present law, if properly enforced, is sufficient to cover the working condition in the Fifth District. Many of the serious explosions that have occurred throughout the State have been caused by the excessive and careless use of black powder. This being the case, in my judgment, the Mine Department should prohibit the use of dynamite in the mines, for shooting coal or for any other purpose except under the supervision of practical and experienced men, and should regulate and control the use of black powder in dry, dusty mines and in mines that liberate explosive gas, either by substituting for it permissible safety explosive, or by compelling the employment of shot firers. This movement would certainly have the support of all fair minded operators.

It is a well known fact that many of the mine foremen throughout the State fail to familiarize themselves with the State Mining Law. They are ignorant as to what constitutes a proper system of ventilation, and have practically no knowledge of explosive gases. This condition can only be changed by requiring the mine foremen and fire bosses to pass an examination as to their competency.

I certainly appreciate the courteous treatment extended me by mine officials and employees, and heartily thank you for the able advice and assistance I have received from you as Chief of the Department of Mines.

Respectfully yours,

EARL A. HENRY,
Mine Inspector Fifth District.

CONDITION OF THE MINES IN THE FIFTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 512 indicates the Fifth District and number 12 mine.

MASON COUNTY.

HARTFORD COAL & MINING COMPANY.

P. O., HARTFORD, W. VA.

Series No. 501. *Hartford Mine.*—This is a slope mine located at Hartford on the B. & O. R. R., operating in the Pittsburg seam of coal which has a thickness of four and a half feet. The roof is sandstone and slate. In the advance headings the roof is slate of a dangerous nature and requires careful attention to insure safety. The mine is developed on the double entry system and ventilated by a ten-foot fan with fair results. Crosscuts between entries and rooms are driven at the regular distances. Mine doors and stoppings in fair condition only. In some

sections of the mine they have considerable water to contend with; drainage only fair. Safety lamps and stretchers on hand as required by law.

A. C. BLOWERS, Supt.

KEM HARRISON, Mine Foreman.

THE LIVERPOOL SALT & COAL COMPANY.

P. O., HARTFORD, W. VA.

Series No. 502. *Jackson Furnace*.—This is a drift mine, located at Hartford, operating in the Pittsburg seam, which has a thickness of four and a half feet. The roof is slate and generally good, and properly timbered. The mine is developed on the double entry system and ventilated by a ten-foot fan which fails to furnish sufficient air for the proper ventilation of the mine. Cross cuts between entries and rooms are driven at the regular distances. Mine doors and stoppings in need of repair. They have a large quantity of water to contend with; drainage fair. The ventilation of this mine was found to be deficient, principally due to the worn out condition of the fan. The attention of the management was called to this deficiency with the recommendation that the necessary repairs be made to place the system of ventilation in condition to meet with the requirements of law. Second opening in fair condition only. The law relative to safety lamps and stretchers complied with.

H. F. SMITH, Supt.

SAMUEL EDWARDS, Mine Foreman.

MASON CITY COAL MINING COMPANY.

P. O., MASON, W. VA.

Series No. 503. *Linden Mine*.—This is a drift mine, located one mile east of Mason, on the B. & O. R. R. operating the Pittsburg seam which has a thickness of five feet. The roof is slate and sandstone and very good, and properly timbered. The mine is developed on the double entry system and ventilated by a five-foot fan which furnishes sufficient air for the present development. Cross-cuts between entries and rooms are driven at the proper distances. Stoppings are built of lumber as it is not thought necessary to build them of concrete, as the mine being practically finished will soon be on the retreat. There is but little water to contend with; drainage good. Second opening in good condition. Rules posted. Safety lamps and stretchers on hand.

C. J. RYAN, Supt.

WILLIAM POTTS, Mine Foreman.

P. O., MASON, W. VA.

Series No. 504. *Klondike Mine*.—This mine adjoins the Linden Mine and during the year was purchased by the Mason City Coal Mining Company, since which time it has been worked in connection with and become a part of the Linden Mine—the name Klondike being dropped.

DIXIE COAL COMPANY.

P. O., MASON, W. VA.

Series No. 505. *Dixie Mine*.—This is a drift mine, located at Mason on the B. & O. R. R., operating in the Pittsburg seam, which has a thickness of four and a half feet. The roof is slate and of good quality, and the mine is properly timbered. The mine is developed on the double entry system and ventilated by a furnace which furnishes sufficient air for the present development. Drainage good. This mine has developed but little during the past year, having been idle a greater part of the time. The second opening in fair condition. Law relative to rules, safety lamps and stretchers complied with.

G. H. GRESS, Supt.

BEN PHILIPS, Mine Foreman.

BEECH GROVE COAL COMPANY.

P. O., MASON, W. VA.

Series No. 506. *Beech Grove Mine*.—This is a drift mine, located near Mason on the B. & O. R. R., operating in the Pittsburg seam, which has a thickness of five feet. The roof is slate and sandstone of good quality, and properly timbered. The mine is developed on the double entry system and ventilated by a temporary furnace with only fair results. Cross-cuts between entries and rooms are regularly driven. Sections of the mine are very wet; drainage fair. Second opening in fair condition. This mine has been idle the greater portion of the year.

JOSEPH ICENHOUR, Supt.

FRED ICENHOUR, Mine Foreman.

CONSUMERS' COAL & MINING COMPANY.

P. O., SPILMAN, W. VA.

Series No. 507. *Camden Mine*.—This is a drift mine, located at Spilman on the B. & O. R. R., operating the Pittsburg seam, which has a thickness of four feet. The roof is slate and sandstone. In some sections of the mine the slate roof is of a dangerous character and requires careful attention to insure safety. The mine is developed on the double entry system and ventilated by a ten-foot fan which furnishes sufficient air for the proper ventilation of the mine. Cross-cuts, between entries and rooms are driven at the proper distances. Doors and stoppings in fair condition. Some sections of the mine are very wet with a large quantity of water to contend with; drainage good. There has been but little development in this mine during the past year, the mine having been idle the greater part of the time. Law relative to rules, safety lamps, and stretchers, complied with.

M. G. TYLER, Supt.

JAMES SMITH, Mine Foreman.

PUTNAM COUNTY.

OAK FOREST COAL COMPANY.

P. O., WINFIELD, R. F. D. NO. 2, W. VA.

Series No. 508. *Oak Forest Mine*.—This is a slope mine, located at Oak Forest on the south side of the Kanawha river, three miles north of Winfield. Operations are in the Pittsburg seam, which has a thickness of four feet. The roof is slate of a fair quality, and properly timbered. Drainage good. The mine is developed on the double entry system and ventilated by a ten-foot fan with good results. Cross-cuts between entries and rooms are driven at the regular distances. Mine doors and stoppings in good condition. Second opening in fair condition only. Law relative to rules, safety lamps, and stretchers complied with. The mine was idle six months during the year, during which time an electric plant and chain-cutting machines were installed.

D. L. THOMAS, Supt.

WILLIAM L. THOMAS, Mine Foreman.

PLYMOUTH COAL & MINING COMPANY.

P. O., PLYMOUTH, W. VA.

Series No. 509. *Plymouth Mine*.—This is a drift mine located at Plymouth on the K. & M. R. R., operating the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate which in some sections is of a dangerous character, requiring the use of a great deal of timber to insure safety. The miners, as a rule, are practical workmen and the working places are properly timbered. The mine is developed on the double entry system and ventilated by two fans, a six-foot Thayer, and a twelve-foot Crawford & McCrimmin, which furnish sufficient air for the proper ventilation of the mine. A large quantity of black damp is given off from the old and abandoned workings to the extent that the twelve-foot fan is operated day and night in order to keep the haulway and working places clear of any accumulations of this gas. Cross-cuts between entries and rooms are driven at the distances required by law. Stoppings on the main air-way are substantially constructed. System of drainage fair. Second opening in first class condition. Mr. Virgin, the general Mine Foreman of the three mines operated by the Plymouth Company has a thorough knowledge of all gases met with in the coal mines and the best methods of ventilation and is ever alert to the safety of the men in his charge. The management cheerfully complies with all instructions from the Mine Department. Rules posted. Safety lamps and stretchers on hand as required.

W. C. MITCHELL, Supt.

JOSEPH VIRGIN, Mine Foreman.

P. O., PLYMOUTH, W. VA.

Series No. 510. *Manilla Mine*.—This is a drift mine, located at Ply-

mouth, operating the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate and in some sections is of a dangerous character, requiring close attention to timbering to insure safety. As a rule the miners are practical workmen and the places are well timbered. The developments are on the double entry system ventilated by a sixteen-foot fan with excellent results. Cross-cuts between entries and rooms are driven at the proper distances. Stoppings on the main air-way are substantially constructed. The required splits in the air-current are regulated by overcasts, and check doors on the room headings properly distribute the air to the working places. Drainage good. Second opening in fair condition. The law regarding rules, safety lamps, and stretchers complied with.

W. C. MITCHELL, Supt.

JOSEPH VIRGIN, Mine Foreman.

P. O., PLYMOUTH, W. VA.

Series No. 511. *California Mine*.—This is a drift mine, located at Plymouth, operating the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate and in some sections is of a dangerous character and must be securely timbered to insure safety. The miners are generally practical workmen and keep their working places properly timbered. Developments are on the double entry system, ventilated by a six-foot fan. Cross-cuts between entries and rooms are driven at the legal distance. Stoppings on the main air-way substantially constructed. The required splits in the air-current are obtained by overcasts and check doors on room headings properly distributed the air to the working places. Drainage good. Second opening in fair condition. The mines of the Plymouth Company are operated exclusively by pick work. The management insists on the coal being mined in a practical manner, giving careful attention to the removal of any accumulations of dust and keeping dusty sections thoroughly watered. The law relating to rules, safety lamps, and stretchers complied with.

W. C. MITCHELL, Supt.

JOSEPH VIRGIN, Mine Foreman.

BLACK BETSEY COAL & MINING COMPANY.

P. O., BLACK BETSEY, W. VA.

Series No. 512. *Black Betsey No. 1 Mine*.—This is a drift mine, located at Black Betsey on the K. & M. R. R., operating the Pittsburg seam, which has an average thickness of five and a half feet. The roof is slate and in some sections is of a dangerous character and must be securely timbered to insure safety. As a rule the workmen keep their places properly timbered. The mine is developed on the double entry system, ventilated by an eight-foot fan which fails to furnish sufficient air to meet with the full requirements of the law, this being principally due to the large development and the distance the air has to travel. Cross-cuts between entries and rooms driven at the proper distances. Doors and stoppings in fair condition. Drainage good. Refuge holes

are maintained on the motor haulway at the distance required by law. Second opening in first-class condition. Law relating to rules safety lamps and stretchers complied with.

C. L. TIPPETT, Supt.

J. W. HARGRAVES, Mine Foreman.

P. O., BLACK BETSEY, W. VA.

Series No. 513. *Black Betsey No. 2 Mine.*—This is a drift mine, located at Black Betsey, and operated in connection with the No. 1 Mine. Operations are in the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate and is of a dangerous character which has to be well timbered to insure safety. As a rule the miners give careful attention to the timbering of their working places. The mine is developed on the double entry system, ventilated by an eight-foot fan which furnishes sufficient air for the present development. Cross-cuts between entries and rooms are driven at the proper distances with concrete stoppings on the main air-way, and overcasts to give the required splits in the air-current. On several occasions the advanced headings have liberated explosive gas, but never in quantities sufficient to cause an explosion. Only pick miners are employed in the Black Betsey Mines and, in some instances, the Company has experienced considerable trouble in preventing shooting from the solid and having the coal properly mined. Some sections of the mine are very wet. System of drainage fair. Second opening in good condition. The officials of this company readily comply with any instructions given by the Mine Department.

C. L. TIPPETT, Supt.

J. W. HARGRAVES, Mine Foreman.

THE OTTO MARMET COAL & MINING COMPANY.

P. O., RAYMOND CITY, W. VA.

Series No. 514. *Big Otto No. 1 Mine.*—This is a drift mine located on Harmon's Creek five miles east of Raymond City, the Otto Marmet Company operating a short line railroad to deliver the product of this mine to the river tipple and also to the K. & M. R. R. Operations are in the Pittsburg seam which has a thickness of five and a half feet with a slate roof which in some sections is of a dangerous character and requires proper timbering to insure safety. As a rule the miners are practical workmen, and their places properly timbered. The mine is practically dry; drainage good. Developments are on the double entry system ventilated by an eight-foot fan with fair results. Cross-cuts between entries and rooms are driven at the proper distances; mine doors and stoppings in fair condition. There are two separate in-take air-ways in this mine with an overcast to give the required splits in the air-current. Second opening in good condition. Law relative to rules, safety lamps, and stretchers complied with.

EDWARD SCHONEBAUM, Supt.

ANDREW UTT, Mine Foreman.

P. O., RAYMOND CITY, W. VA.

Series No. 515. *Big Otto No. 2 Mine*.—This is a drift mine located on Harmon's Creek and operated in connection with Big Otto Mine No. 1, operating the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate and in some sections is of a dangerous character. The miners are well supplied with timber, and as a rule the working places are properly timbered. Developments are on the double entry system, ventilated by a fan at No. 1 Mine, the two mines being connected by an air-course for this purpose with fair results. Cross-cuts between entries and rooms are driven at the proper distances. Doors and stoppings in good condition. The second opening meets with the requirements. Law relative to rules, safety lamps, and stretchers complied with.

EDWARD SCHONEBAUM, Supt.

ROBERT FIELDS, Mine Foreman.

P. O., RAYMOND CITY, W. VA.

Series No. 516. *Big Otto No. 3 Mine*.—This is a drift mine and is located on Harmon's Creek, operating in the Pittsburg seam, which has a thickness of five and a half feet. The roof is slate and in some sections of a dangerous character which requires careful timbering to insure safety. The miners as a rule are practical workmen, and the working places are properly timbered. The mine is practically dry, having but little water to contend with, drainage good. Developments are on the double entry system ventilated by an eight-foot fan with good results as the ventilation meets with the requirements of the mining law. Cross-cuts between entries and rooms are driven at the regular distances. Doors and stoppings in fair condition. No mining machines are used in the mines operated by this company, the entire production is by pick miners, and in some instances the Company has experienced trouble in prohibiting solid shooting. The second opening in first class condition. Rules are posted. Safety lamps and stretchers on hand. Superintendent and mine foreman readily comply with any instructions issued by the Mine Department.

EDWARD SCHONEBAUM, Supt.

ROBERT FIELDS, Mine Foreman.

ALPHA COAL MINING COMPANY.

P. O., PLYMOUTH, W. VA.

Series No. 517. *Alpha Mine*.—This is a drift mine located one mile east of Plymouth on a branch of the K. & M. R. R., operating in the Pittsburg seam which varies in thickness from four and a half to five feet. The roof is slate which in some sections is of a dangerous character, and has to be well timbered to insure safety. As a rule the working places are properly timbered. Developments are on the double entry system ventilated by a ten-foot fan with good results. Cross-cuts between entries and rooms driven at the regular distances; doors and stoppings

in fair condition. The second opening meets with the requirements. This mine has been idle practically the entire year.

J. C. FISH, Supt.

JAMES HARGRAVES, Mine Foreman.

KANAWHA COUNTY.

MILL CREEK CANNEL COAL COMPANY.

P. O., VILLA, W. VA.

Series No. 518. *Mill Creek Mine*.—This mine is located at Villa on Mill Creek on a narrow guage road four and a half mile from the main line of the Coal & Coke R. R. It is a drift operating in the Cannel Coal Seam which varies in thickness from three to four and a half feet. The roof is slate which in some sections is of a dangerous character, and must be well timbered to insure safety. The mine is developed on the double entry system ventilated by a twelve-foot fan, with fair results. Owing to the faulty condition of the coal in sections of this mine it is practically impossible to have the cross-cuts driven at the proper distances. Doors and stoppings in fair condition. Drainage fair. The second opening meets with legal requirements. The law relative to rules, safety lamps and stretchers is complied with.

C. H. MEADE, Supt.

R. W. BRUNK, Mine Foreman.

THE GRAHAM COAL COMPANY.

P. O., GRAHAM MINES, W. VA.

Series No. 519. *Graham Mine*.—This is a drift mine located at Mason, eight miles north of Charleston on the Coal & Coke R. R., operating the Coalburg seam which has a thickness of five and a half feet. The roof is slate and is generally good. The mine is developed on the double entry system ventilated by a temporary furnace. Second opening in fair condition. This mine has not been in operation during the year, and for this reason no inspection or report was made.

W. H. GRAHAM, Supt.

PEN-MAR MINING COMPANY.

P. O., GRAHAM MINES, W. VA.

Series No. 520. *Pen-Mar Mine*.—This is a drift mine located at Mason on the Coal & Coke R. R., six miles east of Charleston, operating the Coaburg seam which has a thickness of five feet. The roof is slate and of excellent quality, requiring but little timber to be used to insure safety. The mine is being developed on the double entry system, and is ventilated by a temporary furnace with fair results. This mine is operated on a cheap scale employing less than ten persons at any one time and only operated at irregular intervals. The mine is damp through-

out with no accumulations of dust. System of drainage poor. Second opening in fair condition. Several months ago this mine was placed in the hands of a receiver and but little attention has been given to the development.

JACOB HOUSEHOLDER, Supt. and Mine Foreman

FALLING ROCK CANNEL COAL COMPANY..

P. O., WEIR, W. VA.

Series No. 521. *Jones Mine*.—This is a drift mine located five miles east of Falling Rock on a narrow guage road to the Coal & Coke. The Cannel Coal seam is operated at this point and varies in thickness from twenty-four to thirty inches. The roof is slate and sandstone which is very good and is properly timbered. The mine is developed on the double entry system ventilated by a twelve-foot fan with good results. Cross-cuts between entries and rooms are driven at the regular distances. Doors and stoppings in fair condition. But few persons are employed in this mine at any one time. The second opening in good condition. Law relative to rules, safety lamps, and stretchers complied with.

E. E. YOUNG, Supt.

R. B. YOUNG, Mine Foreman.

P. O., WEIR, W. VA.

Series No. 522. *Falling Rock No. 2 Mine*.—This mine is located five miles east of Falling Rock on a narrow guage road to the Coal & Coke. It is a drift, operating the Cannel Coal seam varying in thickness from twenty-four to thirty inches. The roof is slate and sandstone which is generally good and properly timbered. Drainage fair. The mine is developed on the double entry system, ventilated by a ten-foot fan with good results. Cross-cuts between entries and rooms are driven at the proper distances. Doors and stoppings in fair condition. The second opening meets with the legal requirements. As yet the developments in this mine are small it being practically a new one, having been in operation less than two years.

E. E. YOUNG, Supt.

R. B. YOUNG, Mine Foreman.

THE QUEEN SHOALS COAL COMPANY.

P. O., QUEEN SHOALS, W. VA.

Series No. 523. *Queen Shoals Mine*.—This mine is located at Queen Shoals on the main line of the Coal & Coke R. R. It is a drift operating the No. 5 seam, which varies in thickness from three and a half to five feet. The roof is slate and sandstone which is very good and properly timbered. The mine is developed on the double entry system, ventilated by a furnace with fair results. The work at this mine is principally the drawing of pillars. Second opening in good condition.

W. R. MORRIS, Supt.

G. W. MILLER, Mine Foreman.

QUEEN COAL & COKE COMPANY.

P. O., HEATHERMAN, W. VA.

Series No. 524. *Turner Mine*.—This mine is located one mile east of Turner on a branch line of the Coal & Coke R. R., is a drift mine operating the No. 5 seam, which has a thickness of three and a half feet. The roof is slate and sandstone which is generally good and properly timbered. The mine is developed on the double entry system, ventilated by a ten-foot fan which furnishes sufficient air if properly distributed to the working places. Cross-cuts between entries and rooms were not being driven at the proper distances in some sections of the mine. Mine doors and stoppings in defective condition, causing the ventilation to be deficient to some extent. The Superintendent's attention was called to the defective ventilation and he gave the assurance that the necessary improvements in ventilation would be made without delay. Second opening in good condition.

A. H. LEA, Supt.

C. G. CANTLEY, Mine Foreman.

LUCAS RAY COAL COMPANY.

P. O., HEATHERMAN, W. VA.

Series No. 525. *Lucas-Ray Mine*.—This is a drift mine located two miles east of Turner on a branch line to the Coal & Coke R. R., operating the No. 5 seam which has a thickness of three feet. The roof is slate and is generally good. This mine is practically abandoned as it has been idle for the past eighteen months and most of the equipment has been sold and taken from the premises. For this reason no inspection or report was made of this mine.

JEFFERSON COAL & COKE COMPANY.

P. O., HEATHERMAN, W. VA.

Series No. 526. *Heatherman Mine*.—This is a drift mine located one and a half miles east of Turner on a branch line to the Coal & Coke R. R., operating the No. 5 seam which has a thickness of three and a half feet. The roof is slate and generally good. This mine is practically abandoned as it has been idle for the past two years and most of the equipment has been sold and taken from the premises. For this reason no inspection was made.

HARTS BRANCH COAL COMPANY.

P. O., QUEEN SHOALS, W. VA.

Series No. 528. *Harts Branch Mine*.—This is a drift mine located near Queen Shoals on the main line of the Coal & Coke R. R., operating the No. 5 seam which has a thickness of three and a half feet. The roof

is slate and generally good. This mine is practically abandoned. Most of the equipment has been sold and taken from the premises. The mine has been idle for more than a year. For this reason no report or inspection was made.

P. O., CLENDENIN, W. VA.

Series No. 527. *Taggart Mine*.—This mine is a drift located one-half mile north of Clendenin on the Coal & Coke R. R., operating the No. 5 seam, which varies in thickness from twenty-four to thirty inches. The roof is slate and is generally good. The mine is developed on the double entry system and ventilated by a temporary furnace. The second opening fails to meet with the requirements of law. This mine was visited, but no inspection made as the mine had been idle during the year and no one in official capacity could be found, or information obtained as to when the mine would resume operation.

THE CLAY COAL COMPANY.

P. O., BARREN CREEK, W. VA.

Series No. 529. *Bradley White Ash Mine*.—This is a drift mine located at Barren Creek, one mile east of Queen Soals, on the Coal & Coke R. R., operating the No. 5 seam which has a thickness of four feet. The roof is slate which is generally good, and well timbered. The mine is developed on the double entry system, ventilated by a furnace with fair results. Cross-cuts between entries and rooms are driven at the proper distances. Doors and stoppings in fair condition. There is but little water to contend with, but sufficient moisture throughout the mine to allay the dust. Second opening in good condition. Law relative to rules, safety lamps, and stretchers complied with.

GEORGE GAGHAN, Supt.

WILLIAM WOODRUM, Mine Foreman.

BLUE CREEK COAL & LAND COMPANY.

P. O., BLAKELEY, W. VA.

Series Nos. 530 & 531. *Wills Hollow, Nos. 1 & 2 Mines*.—These are drift mines located one mile west of Blakeley on the Kanawha & West Virginia Railroad operating the No. 5 seam, varying in thickness from four to five feet. The roof is slate and fairly good. Developments are on the double entry system, ventilated by two six-foot fans with very fair results. Drainage is fair. These mines have not been operated during the last eleven months of the past year.

D. H. MORTON, Supt.

P. O., BLAKELEY, W. VA.

Series No. 532. *Blakeley No. 3 Mine*.—This mine is a drift mine lo-

cated at Blakeley on the Kanawha & West Virginia Railroad operating the No. 5 seam varying in thickness from three to five feet. The roof is sandstone and slate which is fairly good and well timbered. Drainage fair. There are three separate openings to this mine, developed on the double entry system. The No. 3 drift is ventilated by a six-foot fan with good results, while the Nos. 1 and 2 drifts are ventilated by temporary furnaces which fail to furnish sufficient air for a proper system of ventilation. Cross-cuts are driven at the regular distances. Doors and stoppings in fair condition. Second opening meets with legal requirements. This mine was developed but little during the past year having been idle two-thirds of the time.

D. H. MORTON, Supt.

ROBERT MILLER, Mine Foreman.

P. O., BLAKELEY, W. VA.

Series No. 533. *Blakeley No. 4 Mine*.—This mine is located at Blakeley on the Kanawha & West Virginia Railroad, operating the Lewiston seam which has a thickness of four and a half feet. The roof is slate which is generally good. Developments are on the double entry system, ventilated by a temporary furnace. This mine has been idle for the past two years.

D. H. MORTON, Supt.

COLUMBIA COAL MINING COMPANY.

P. O., BLUE CREEK, W. VA.

Series Nos. 534, 535 & 536. *Shrader Mines, Nos. 1, 2 & 3*.—These are drift mines located on Blue Creek, on the Kanawha & West Virginia Railroad. They operate the No. 5 seam which varies in thickness from three and a half to four feet. The roof is slate and is generally good. The mines are developed on the double entry system, and ventilated by temporary furnaces. These mines have been idle for the past two years and no information could be obtained as to when they would resume operation.

RODERICK COAL COMPANY.

P. O., QUICK, W. VA.

Series No. 537. *Roderick Mine*. This is a drift mine located at Roderick on the Kanawha & West Virginia Railroad, operating the No. 5 seam which has a thickness of four and a half feet. The roof is sandstone and is very good. The mine is developed on the double entry system, ventilation is produced by an eight-foot fan with good results. Cross-cuts are driven at the regular distances. Stoppings on the main air-way are built of substantial material. The second opening is in good condition. The mine has been idle the greater portion of the year.

G. H. P. SPRUCE, Supt.

D. D. WILLIAMS, Mine Foreman.

ACME STEAM COAL COMPANY.

P. O., QUICK, W. VA.

Series No. 538. *Acme Mine*.—This is a drift mine located on Blue Creek on the Kanawha & West Virginia Railroad, operating the No. 5 seam, which has a thickness of five feet. The roof is sandstone and is good. The mine is developed on the double entry system and ventilated by a temporary furnace. This is a new mine and little has been done in the way of development. It has been idle the greater portion of the year.

G. H. P. SPRUCE, Supt. NICK RIDER, Mine Foreman.

WILLIAMS COAL COMPANY.

P. O., CHARLESTON, W. VA.

Series No. 539. *Williams Mine*.—This is a drift mine located on Blue Creek on the Kanawha and West Virginia Railroad operating the No. 5 seam of coal which has a thickness of four and half feet with a sandstone and slate roof which is generally good. The mine is developed on the double entry system and ventilated by a furnace which furnishes sufficient air for the present development. Drainage is good. This mine has only been operated about six months during the past year. They have recently installed an electric plant and electric mining machines. The second opening is in good condition.

G. B. WILLIAMS, Supt. W. M. HORNSBY, Mine Foreman.

KENDALIA COAL & COKE COMPANY.

P. O., QUICK, W. VA.

Series No. 540. *Perbelkin Mine*.—This is a drift mine located on Blue Creek on the Kanawha & West Virginia Railroad, operating in the No. 5 seam, which has a thickness of four feet. The roof is sandstone and slate roof and generally good. The mine was opened early in the year, a tippie and store-house partly constructed, when the work was suddenly abandoned. No person could be found on the premises who could give any information as to why it was abandoned, or when it would be continued. No inspection or report was made.

BLACK HAWK COAL COMPANY.

P. O., CHARLESTON, W. VA.

Series No. 541. *Black Hawk Mine*.—This is a drift mine located near Snow Hill on the main line of the K. & M. R. R., operating the Coalburg seam, which has a thickness of five feet. The roof is slate and is fairly good. The mine is developed on the double entry system and ventilated by a six-foot fan. During the year the tippie, which had been con-

structed for river shipment, was re-located for railroad shipment, but only a small quantity of coal was mined, and this was for local consumption. The mine was visited and found to be idle. The information was that the mine was only operated at intervals when there was a local demand for coal. No official was found in charge of the plant, and for this reason no report was made.

CAMPBELL'S CREEK COAL COMPANY.

P. O., PUTNEY, W. VA.

Series No. 542. *Putney, Mine No. 1.*—This mine is a drift located at Putney, W. Va., thirteen miles east of Dana on the Campbell's Creek R. R., operating the No. 5 seam varying in thickness from four to five feet. The roof is slate which is generally good, and well timbered. The developments are on the double entry system ventilated by a ten-foot fan, with good results. Crosscuts between entries and rooms are driven at the regular distances. Mine doors and stoppings in fair condition. Drainage good. Few persons are employed in this mine. A gathering motor is used for haulage. Second opening in first class condition. The law regarding rules, safety lamps, and stretchers complied with.

W. V. RENSFORD, Supt. ANDREW CALDERWOOD, Mine Foreman.

P. O., PUTNEY, W. VA.

Series No. 543. *Putney No. 4 Mine.* This mine is located at Putney, thirteen miles east of Dana on the Campbell's Creek R. R. It is a drift operating the No. 5 seam which varies in thickness from four and a half to five and a half feet. The roof is slate, which is fairly good and well timbered. Drainage fair. The mine is developed on the double entry system and ventilated by an eight-foot fan with good results. Crosscuts between entries are driven at the proper distances but neglected in a few of the rooms. Doors and stoppings in fair condition. This mine will shortly be connected with a new drift, which will give the required splits in the air-current. The second opening in good condition. Law relative to rules, safety lamps and stretchers complied with.

W. V. RENSFORD, Supt. ANDREW CALDERWOOD, Mine Foreman.

P. O., PUTNEY, W. VA.

Series No. 544. *Putney No. 3 Mine.*—This mine is located at Putney thirteen miles east of Dana on the Campbell's Creek Railroad. It is a drift, operating the No. 5 seam which varies in thickness from five and a half to six and a half feet. The roof is slate which in most parts of the mine is very good, and well timbered. The mine is developed on the double entry system and ventilated by a ten-foot Jeffrey fan which gives very good results. Crosscuts between entries and rooms

are driven at the regular distances. Stoppings on the main air-way are constructed of concrete. An overcast is used to give the required split in the air-current with check doors on room headings for the proper distribution of the air to the working faces. There is but little water to contend with; drainage good. There is sufficient moisture throughout the mine to allay the dust. Second opening in good condition. The law relative to rules, safety lamps and stretchers complied with. The Company's officials cheerfully comply with any instructions given by the Mine Department.

W. V. RENSFORD, Supt. ANDREW CALDERWOOD, Mine Foreman.

WALLACE COAL COMPANY.

P. O., BELLE, W. VA.

Series No. 545. *Belle Mine*.—This mine is located eleven miles south of Charleston on the main line of the K. & M. R. R. It is a drift, operating the Coalburg seam, which varies in thickness from three to four and a half feet. It has no regular system of development. The ventilation is by natural causes with poor results. This mine was opened some time in the fifties at which time the product was used in the manufacture of salt. After being idle for many years it was reopened by the Kanawha Block Coal Co., who constructed a very cheap tippie and incline and operated the mine for a short time only. After remaining idle for a year, the Wallace Coal Company attempted to operate the mine, but after loading a few cars, they abandoned it and left for parts unknown.

J. A. WALLACE, Supt.

ROY STONE, Mine Foreman.

QUINCY COAL COMPANY.

P. O., QUINCY, W. VA.

Series No. 546. *Quincy No. 1 Mine*.—This is a drift mine located one mile east of Dixon on a branch to the K. & M. R. R., operating in the Lewiston Seam which has a thickness of three and a half feet. The roof is slate which is good and well timbered. The mine is developed on the double entry system and ventilated by a five-foot fan which furnishes sufficient air when properly distributed to the working faces. Crosscuts between entries are driven at the proper distances but irregular in some rooms. Mine doors and stoppings in fair condition. This mine has advanced but little in development during the past year, having been idle a part of the time and only employing a few persons when in operation. The mine is damp throughout with no accumulations of dust. Second opening in fair condition. Safety lamps and stretchers on hands; no rules posted.

JOHN L. DICKINSON, Supt.

I. C. MORRIS, Mine Foreman.

P. O., QUINCY, W. VA.

Series No. 547. *Quincy No. 2 Mine*.—This is a drift mine located one miles east of Dixon on a branch to the K. & M. R. R., operating in the No. 5 Seam which varies in thickness from five and a half to six feet. The roof is slate and generally good and properly timbered. The mine is developed on the double entry system ventilated by a seven-foot fan with good results. Crosscuts between entries and rooms driven at proper distances. Mine doors and stoppings in fair condition only. A portion of the mine is very wet. System of drainage fair. The second opening in good condition. No rules posted. Safety lamp and stretchers on hand as required by law.

JOHN L. DICKINSON, Supt.

J. M. KELLEY, Mine Foreman.

SUNDAY CREEK COMPANY.

P. O., SHREWSBURY, W. VA.

Series No. 548. *Sunday Creek No. 101 Mine*.—This mine is located at Shrewsbury on the K. & M. R. R. It is a drift operating the North Coalburg Seam which has an average thickness of five and a half feet. The roof is sandstone and slate which is generally good. The mine is developed on the double entry system, ventilated by a six foot fan with good results. Crosscuts between entries and rooms driven at the regular distances. There are several openings to this mine which are used as separate intake airways which give the required splits. In sections of this mine there is a large quantity of water to contend with. System of drainage only fair. As the surface is very light and the grades very irregular it makes a proper system of drainage very expensive. Second opening in fair condition. Law regarding rules, safety lamps and stretchers complied with.

JOHN W. TAYLOR, Supt.

JAMES A. NEYLAN, Mine Foreman.

P. O., CEDAR GROVE, W. VA.

Series No. 549. *Sunday Creek No. 104 Mine*.—This is a drift mine located one-half mile east of Cedar Grove on the Kelley's Creek R. R., operating in the Coalburg Seam which has an average thickness of five feet. The roof is slate and only fairly good but well timbered. The mine is developed on the double entry system, and ventilated by a seven-foot fan with only fair results, this being due to the improper location of the fan. Crosscuts between entries and rooms are driven at the proper distances; stoppings on main airway are constructed of concrete and overcasts built to give the required splits in the air-current. The mine is damp throughout with no accumulations of dust. A new opening has been driven to the outcrop and preparations are being made to install the fan at this point which will greatly improve the system of ventilation. Second opening in first class condition. Law relative to rules, safety lamps and stretchers complied with.

JOHN W. TAYLOR, Supt.

WILLIAM MARTIN, Mine Foreman.

P. O., MAMMOTH, W. VA.

Series No. 550. *Sunday Creek No. 105 Mine.*—This is a drift mine located at Mammoth six miles east of Cedar Grove on the Kelley's Creek R. R., operating in the Coalburg Seam which has a thickness of five and a half feet. The roof is slate and fairly good, the mine is well timbered. The greater portion of the mine is dry, but with sufficient moisture to allay the dust in most parts. Only a few sections require watering. The mine is developed on the double entry system. The mine is ventilated by two fans, a six-foot and a ten-foot, which furnish sufficient air for the proper ventilation of the mine, as each fan has a separate intake air-way making the required splits in the air-current. Cross-cuts between entries and rooms are driven at the proper distances, with concrete stoppings on the main air-way. Second opening in good condition. Law relative to rules being posted, safety lamps and stretchers, complied with.

JOHN W. TAYLOR, Supt.

WILLIAM WELCH, Mine Foreman.

P. O., MAMMOTH, W. VA.

Series No. 551. *Sunday Creek No. 106 Mine.*—This is a drift mine located neas Mammoth on the Kelley's Creek R. R., operating in the No. 5 Seam. This mine has been in operation at no time in the year and for this reason no inspection was made.

JOHN W. TAYLOR, Supt.

P. O., MAMMOTH, W. VA.

Series No. 552. *Sunday Creek No. 108 Mine.*—This is a drift mine located near Mammoth, on the Kelly's Creek R. R., operating in the Coalburg Seam. This mine has not been in operation at any time in the past year and for this reason no inspection was made.

JOHN W. TAYLOR, Supt.

P. O., MAMMOTH, W. VA.

Series No. 553. *Sunday Creek No. 109 Mine.*—This is a drift mine located one mile west of Mammoth on the Kelley's Creek R. R., operating the No. 5 Seam which has an average thickness of five and a half feet. The roof is slate that is fairly good, and well timbered. The mine is developed on the double entry system, ventilated by a six-foot fan which is inadequate for the proper ventilation of the mine, especially as to the sanitary condition. The mine is damp throughout with no accumulation of dust in any section. Cross-cuts between entries and rooms are driven at the proper distances. Mine doors and stoppings in fair condition. Second opening meets with legal requirements and the law relating to rules, safety lamps, and stretchers is being complied with.

J. W. TAYLOR, Supt.

D. B. ROSS, Mine Foreman.

KANAWHA COUNTY.

NEW CEDAR GROVE COAL & BRICK COMPANY.

P. O., CEDAR GROVE, W. VA.

Series No. 554. *Boyd Mine*.—This is a drift mine located near Cedar Grove on the K. & M. R. R., operating the Cedar Grove Seam which has a thickness of three feet. The roof is slate and fairly good. This is a new opening near the old mine which is practically finished. As yet the development is very small, only having four working places which are ventilated by natural causes and there is not sufficient air for the proper ventilation of the mine. This mine was inspected June 21, 1909, at which time a conference was held with the Superintendent and he agreed that the mine should be closed down until such time as arrangements can be made for a suitable system of ventilation.

THOMAS BOYD, Supt.

W. M. QUICK, Mine Foreman.

KELLY'S CREEK COLLIERY COMPANY.

P. O., WARD, W. VA.

Series No. 555. *Kelly's Creek No. 1 Mine*.—This is a drift mine located at Ward, three miles east of Cedar Grove on the Kelly's Creek and North-western R. R., operating in the Coalburg Seam, varying in thickness from four to five and a half feet, with a draw slate of a dangerous character, varying in thickness from eight to fifteen inches, which generally has to be taken down to insure safety. The mine is properly timbered. Developments are on the double entry system ventilated by an eight-foot fan which furnishes sufficient air to ventilate the mine when properly distributed. Cross-cuts between entries and rooms are driven at the proper distances. Stoppings are constructed from lumber and found to be defective in some sections. Mine doors in fair condition. The mine is practically dry but not to the extent of becoming dangerous from the accumulation of dust. Second opening in good condition. Law relative to rules, safety lamps, and stretchers, complied with. This mine has been idle the latter part of the year and nothing definite could be learned as to when it would resume operation.

H. T. SMARR, Supt.

WILLIAM MARTIN, Mine Foreman.

Series No. 556. *Kelly's Creek No. 3 Mine*.—This mine is located at Ward, three miles east of Cedar Grove on the Kelly's Creek and North-western R. R. It is a drift, operating in the Coalburg Seam which varies in thickness from four to five feet. The roof is slate and of a dangerous character in some sections, especially the draw slate which varies in thickness from eight to eighteen inches and, as a rule, is taken down to insure safety. The mine is properly timbered. Developments are on the double entry system ventilated by an 8 foot fan which furnishes sufficient air for the proper ventilation of the mine. At the time of last inspection the

ventilation was found to be somewhat deficient this being due to changes being made in the electric haulway, requiring the re-locating of some stoppings. When the work is completed the ventilation will meet with the requirements of law. The mine is practically dry, but not to the extent of being dangerous from accumulations of dust. The second opening is in good condition. Law relative to rules, safety lamps, and stretchers, complied with.

H. T. SMARR, Supt.

HARRY E. TAYLOR, Mine Foreman.

Series No. 557. *Kelly's Creek No. 3 1/2 Mine*.—This is a drift, located at Ward on the Kelley's Creek and Northwestern R. R., and operated in connection with No. 3 Mine, operating the Coalburg Seam which has a thickness of five and a half feet. The roof is slate and fairly good. The mine is developed on the double entry system, ventilated by an eight-foot fan which furnishes sufficient air for the proper ventilation of the mine. Cross-cuts between entries and rooms are driven at the proper distances. Stopping on the main air-way are built of stone and mortar. Doors in fair condition. Work was being pushed to make the required splits in the air-current by driving a heading a short distance to the outcrop to be used as an additional in-take airway. Second opening in first class condition. Rules posted; safety lamps and stretchers on hand as required by law. The mine is generally damp with no accumulations of dust.

H. T. SMARR, Supt.

HARRY E. TAYLOR, Mine Foreman.

Series No. 558. *Kelly's Creek No. 4 Mine*.—Located at Ward, three miles east of Cedar Grove on the Kelley's Creek and Northwestern R. R. It is a drift, operating the Cedar Grove Seam. Idle during the past year and no inspection made.

H. T. SMARR, Supt.

HUGHES CREEK COAL COMPANY.

P. O., HUGHESTON, W. VA.

Series No. 559. *Hugheston No. 2 Mine*.—This is a drift mine located at Hugheston on the K. & M. R. R. operating in the Coalburg Seam which varies in thickness from four to five feet. The roof is slate of a dangerous character, especially the draw slate which varies in thickness from eight to fifteen inches, which is generally taken down to insure safety and the working places properly timbered. The mine is developed on the double entry system, and ventilated by an eight-foot fan with good results. Cross-cuts between entries and rooms are regularly driven. Mine doors and stoppings in fair condition. The mine is practically dry. The main straight entry has been driven through the mountain and a new opening made in what is known as the Sugar Camp Hollow. The ventilation and drainage of this new opening was found to be very deficient, and the Superintendent was instructed to make the necessary improvements in the present system of ventilation to meet the requirements of

the law. Law relative to rules, safety lamps, and stretchers, complied with.

JOHN W. MOORE, Supt.

JOHN W. NUGENT, Mine Foreman.

Series No. 560. *Hugheston No. 3 Mine*.—Located at Hugheston on the K. & M. R. R. It is a drift, operating the Coalburg Seam which has a thickness of five and a half feet. The roof is slate and of a dangerous character, especially the draw slate which varies in thickness from eight to fifteen inches and, as a rule, has to be taken down to insure safety. The miners are well supplied with timber and the working places are well timbered. Developments are on the double entry system, ventilated by a seven-foot fan which furnishes sufficient air for the proper ventilation of the mine when properly distributed. Cross-cuts between entries and rooms are driven at the proper distances. Mine doors and stoppings in need of repair. Drainage fair. Second opening in good condition. Law in regard to rules, safety lamps, and stretchers, complied with.

J. W. MOORE, Supt.

J. W. RHODES, Mine Foreman.

CANNELTON COAL COMPANY.

P. O., CANNELTON, W. VA.

Series No. 561. *Cannelton No. 2 Mine*.—This mine is located on Smithers Creek, one mile east of Cannelton on a branch line to the K. & M. R. R. It is a drift, operating in the No. 2 Gas Seam which varies in thickness from five and a half to eight feet. The roof is slate and of excellent quality, requiring but little timber to insure safety. The mine is developed on the double entry system, ventilated by a twelve-foot Capell fan with good results. Cross-cuts between entries and rooms are driven at the proper distances. The mine is equipped with automatic mine doors. The stoppings are constructed of lumber and in fair condition. While the working places are practically dry there is sufficient moisture to allay the dust and keep the mine in safe condition. Overcasts have been constructed to give the required splits in the air current. Second opening in first class condition. Law relative to rules, safety lamps and stretchers complied with. The management endeavor to comply with the Mining Law and all instructions issued by the Mine Department.

LANGDON LEA, Supt.

NEIL McCAFFERTY, Mine Foreman.

THE MARMET COAL COMPANY.

P. O., MONARCH, W. VA.

Series No. 562. *Monarch No. 1 Mine*.—Located at Monarch, on the K. & M. R. R. It is a drift, operating in the Cedar Grove Seam which has a thickness of three and a half feet. Developments are on the double entry system, ventilated by a seven-foot fan with only fair results, owing to the great distance the air has to travel and the return air-way being

partially closed. The system of ventilation is being improved by the construction of concrete stoppings on the main air-way and the placing of check doors on the room headings that the air-current may be properly distributed to the working faces of the rooms. Crosscuts between entries and rooms are driven at the proper distances. Mine doors in fair condition. Defective stoppings are being replaced by concrete. Refuge holes are maintained at the proper distances on the motor haulway. A great portion of the mine is dry, but not to the extent of being dangerous from dust. Second opening in fair condition. The law relative to rules, safety lamps and stretchers, is complied with.

W. H. MORRIS, Supt.

C. W. KING, Mine Foreman.

Series No. 563. *Monarch No. 2 Mine.*—This mine is located at Monarch. It is a drift, operating in the Cedar Grove Seam which has a thickness of three feet. The roof is slate and fairly good. This mine is operated in connection with Mine No. 1 and developed on the double entry system. It is ventilated by a seven-foot fan with good results. Crosscuts between entries and rooms are driven at the proper distances. Doors and stoppings in fair condition. The greater part of the mine is dry, but there are no dangerous accumulations of dust. The second opening is in fair condition. The law regarding rules, safety lamps, and stretchers, complied with.

W. H. MORRIS, Supt.

C. W. KING, Mine Foreman.

FAYETTE COUNTY.

SUNDAY CREEK COMPANY.

P. O., CARBONDALE, W. VA.

Series No. 564. *Sunday Creek No. 111.*—This is a drift mine located at Carbondale on a branch of the K. & M., one-half mile east of Smithers, operating in the No. 2 Gas Seam which has a thickness of five and a half feet. The roof is slate and of excellent quality, requiring the use of but little timber to insure safety. Developments are on the double entry system. There are two separate openings to this mine, each of which is ventilated by a six-foot fan. The fan at the No. 1 drift was formerly located in the mine at a distance of about thirteen hundred feet, at which point, on the night of February 9, 1909, the mine was found to be on fire, which was probably due to a short circuit, or a defective condition of the electric motor operating the fan. When discovered, the fire had made considerable headway, and it required a large force of men, several days, to construct concrete stoppings before the fire could be controlled. This incident demonstrates conclusively that it is not good mining practice to locate a fan inside of a dry, dusty mine. After the fire was under control, a fan was installed at the outside of this drift which eliminates the danger of a mine fire from this source. Cross-cuts between entries and rooms are driven at the proper distances, with concrete stoppings on the main air-way and overcasts to give the required splits in the air-current.

The second opening in first class condition. The law relative to rules, safety lamps and stretchers, complied with. The mine is practically dry, but all accumulations of dust are properly watered by a water car equipped with an electric pump and hose especially constructed for this purpose.

W. F. MANDT, Supt.

C. E. THRUSH, Mine Foreman.

Series No. 565. *Sunday Creek No. 112 Mine*.—Located one mile east of Smithers on a branch of the K. & M. R. R. It is a drift operating in the No. 2 Gas Seam, varying in thickness from four to five feet. The roof is slate and of excellent quality, requiring the use of but little timber to insure safety. The mine is developed on the double and triple entry system, ventilated by a ten-foot fan with fair results. Cross-cuts between entries and rooms are driven at the regular distances with concrete stoppings on the main air-ways and overcasts to give the required splits in the air-current. The greater part of the mine is damp, creating sufficient moisture to allay the dust. The second opening in first class condition. The law relative to rules, safety lamps, and stretchers is complied with.

W. F. MANDT, Supt.

LEE JENKINS, Mine Foreman.

P. O., LONGACRE, W. VA.

Series No. 566. *Sunday Creek No. 114*.—This mine is located at Longacre on the main line of the K. & M. R. R. It is a drift, operating in the No. 2 Gas Seam varying in thickness from four to five and a half feet. The roof is slate and of an excellent quality, requiring but little timbering to insure safety. Developments are on the double entry system. Ventilation is produced by a seven-foot fan with fair results. Cross-cuts between entries and rooms are driven at the regular distances. Doors and stoppings in fair condition. The mine is dry throughout, and in some sections must be watered to allay the dust. But few persons are employed in this mine at any time—practically no developments during the year. The main straight entry has been driven through the mountain and is used as an electric haulway for Mine No. 114 X.

W. F. MANDT, Supt.

JOHN DUFOR, Mine Foreman.

Series No. 567. *Sunday Creek No. 114X*.—This is a drift mine located at Longacre and operated in connection with mine No. 114, operating in the No. 2 Gas Seam which has a thickness of five feet. The roof is slate and of excellent quality, requiring but little timber to be used to insure safety. The mine is developed on the double entry system and ventilated by a seven-foot fan which gives very good results. Cross-cuts between entries and rooms are driven at the proper distances. Stoppings on the main airway are built of concrete. Overcasts are constructed for the purpose of making the required splits of the air current. This mine is generally damp—creating sufficient moisture to allay the dust. The second opening in good condition. Law relative to rules, safety lamps and stretchers is complied with.

W. F. MANDT, Supt.

JOHN DUFOR, Mine Foreman.

P. O., HAREWOOD, W. VA.

Series No. 568. *Sunday Creek Mine No. 115 Mine.*—Located at Harewood on the main line of the K. & M. R. R. It is a drift, operating in the No. 2 Gas Seam with an average thickness of five and a half feet. The roof is slate and excellent, requiring but little timbering to insure safety. The mine is developed on the double entry system, ventilated by a ten-foot fan with good results. Cross-cuts between entries and rooms are driven at the regular distances with a system of overcasts, concrete stoppings, and check doors to give the required splits and proper distribution of the air. The mine is practically dry, but is kept properly watered in dusty sections by means of a water car equipped with an electric pump and hose, making the general condition throughout this mine very good. The second opening is in good condition. The law relative to rules, safety lamps, and stretchers, is complied with. The officials of the Sunday Creek Company show a willingness to comply with the law or with any instructions issued by the Mine Department.

W. F. MANDT, Supt.

J. R. FLEEMAN, Mine Foreman.

COLUMBUS IRON & STEEL COMPANY.

P. O., MARTING, W. VA.

Series No. 569. *Columbus Mine.*—Located at Marting, four miles east of Smithers on a branch of the K. & M. R. R. It is a drift, operating in the No. 2 Gas Seam which has a thickness of five and a half feet. The roof is slate of an excellent quality, requiring but little timbering to insure safety. Developments are on the double entry system. Two fans, a seven-foot and an eight-foot, furnish sufficient air for the thorough ventilation of the mine. Cross-cuts between entries and rooms are driven at the proper distances. Practically all of the stoppings are constructed of stone and mortar. The required splits in the air-current are obtained by overcasts making a good system of ventilation. The greater portion of the mine is dry, a pipe line and hose being used to water the dusty sections, placing this mine in splendid condition. The law relative to the second opening, rules, safety lamps and stretchers is fully complied with, as the management endeavor to comply with the Mining Law or any instructions issued by the Department of Mines.

J. H. FERGUSON, Supt.

G. E. SANFORD, Mine Foreman.

KANAWHA GAS COAL COMPANY.

P. O., SMITHERS, W. VA.

Series No. 570. *Kanawha Gas Mine.*—This is a drift mine located at Smithers on the K. & M. R. R., operating in the No. 2 Gas Seam which has a thickness of five and a half feet. The roof is of slate and is excellent, requiring but little timbering to insure safety. This mine was developed on the double entry system but for the past year has been working on the retreat, principally drawing pillars. This mine is ventilated by a fan

located at the Oakland Mine. At times the ventilation is deficient in some parts of the mine owing to the heavy falls of slate, but this is usually changed in the course of a few days by making the necessary change in the connection with the Oakland Mine. The greater part of the mine is dry requiring watering to allay the dust. The second opening is in good condition. The Mining Law relative to rules, safety lamps, and stretchers is fully complied with.

T. A. BARTLAM, Supt.

SAMUEL MITCHELL, Mine Foreman.

W. R. JOHNSON & COMPANY.

P. O., LONGACRE, W. VA.

No. 571. *Oakland Mine*.—This is a drift mine located at Oakland on the main line of the K. & M. R. R., operating the No. 2 Gas Seam which varies in thickness from four and a half to five and a half feet. It is developed on the double entry system, ventilation is produced by a ten-foot fan which furnishes sufficient air if properly distributed. Ventilation was found to be deficient in some sections due to the defective stoppings. No concrete stoppings have been built in any section of this mine as the principal work is drawing pillars. The roof is generally good and the mine well timbered. A greater portion of the mine is dry, requiring watering of dusty sections. Powder and oil law is well observed. Second opening in good condition. Rules are posted; safety lamps and stretchers on hand.

T. A. BARTLAM, Supt.

BEN HILL, Mine Foreman.

KANAWHA GAS COAL COMPANY.

P. O., SMITHERS, W. VA.

Series No. 572. *Eagle No. 1 Mine*.—Located at Smithers on the main line of the K. & M. R. R. It is a drift, operating the No. 1 Eagle Seam which has a thickness of four feet. The roof is slate and generally good. Developments are on the double entry system, ventilated by a six-foot fan, which gives good results. Cross-cuts between entries and rooms are driven at the regular distances; stoppings in fair condition. Drainage only fair. The second opening fails to meet the requirements of the law. This mine has been idle a greater part of the time during the past year, at no time employing more than fifteen persons. A heading was being driven to the outcrop to improve the system of drainage and to be used as a second opening. Rules are posted; safety lamps and stretchers kept on hand.

T. A. BARTLAM, Supt.

SAMUEL MITCHELL, Mine Foreman.

BOOMER COAL & COKE COMPANY.

P. O., BOOMER, W. VA.

Series No. 573. *Boomer No. 1 Mine*.—This is a drift mine located near Boomer on a branch of the K. & M. R. R., operating the No. 2 Gas Seam

which has a thickness of five and a half feet. It has an excellent slate roof that requires but little timbering. Developments on the double entry system, ventilated by a ten-foot fan with good results. Cross-cuts between entries and rooms are driven at the proper distances. Stoppings on the main air-way are constructed of concrete. The splits in the air-current are regulated by overcasts giving a good system of ventilation. The mine is practically dry but has a pipe line and hose for the purpose of watering any accumulations of dust. The law relative to powder and oil is well observed, as the management endeavors to comply with the law or any instructions from the Mine Department for the safety of their employes. The second opening is in good condition. Rules are posted at the mine. Safety lamps and stretchers kept on hand.

W. M. GILLIE, Supt.

HENRY DEEM, Mine Foreman.

Series No. 574. *Boomer No. 2 South Mine.*—This is a drift mine located one mile east of Boomer on a branch of the K. & M. R. R. operating the No. 1 Eagle Seam which varies in thickness from five and a half to six ft. The roof is of slate and in some sections is bad, but these places are given proper attention and are carefully timbered. Developments are on the double entry system ventilated by a twenty-foot fan. Cross-cuts between entries and rooms are driven at regular distances. Stoppings on the main air-way are built of stone and mortar. The splits in the air-current are regulated by overcasts making a good system of ventilation. Drainage good. Refuge holes are properly maintained on the motor haulways. This mine is generally damp with no accumulations of dust. Powder and oil law well observed. Second opening in good condition. Rules are posted at the mine. Safety lamps and stretchers kept on hand.

W. M. GILLIE, Supt.

CHARLES DUNCAN, Mine Foreman.

Series No. 575. *Boomer Mine No. 2 North.*—This is a drift mine located one mile east of Boomer on a branch of the K. & M. R. R., operating the No. 1 Eagle Seam which varies in thickness from five and a half to six feet. The roof is slate and in some sections is bad, but is given careful attention and is properly timbered. The developments are on the double entry system ventilated by a twenty-foot fan with good results. Cross-cuts between entries and rooms are driven at the regular distances. Stoppings on the main air-way are built of stone and mortar. Overcasts are constructed to make the necessary splits in the air-current. Drainage good. The mine is generally damp with no accumulations of dust. Powder and oil law well observed. The second opening in good condition. Refuge holes are well maintained on the motor haulways. Rules are posted. Safety lamps and stretchers kept on hand.

W. M. GILLIE, Supt.

BUD HAZLETT, Mine Foreman.

Series No. 576. *Boomer No. 3 Mine.*—This is a drift mine located one mile east of Boomer on a branch of the K. & M. R. R., operating the No. 2 Gas Seam which has a thickness of five and a half feet. Developed on the double entry system and ventilated by means of an eight-foot fan which furnishes sufficient air to properly ventilate the mine. Cross-cuts be-

tween entries and rooms are driven at the proper distances, with concrete stoppings on the main air-way. The required splits in the air-currents are obtained by means of overcasts making a good system of ventilation. The greater part of the mine has an excellent roof that requires but little timbering to insure safety. A large portion of the mine is dry and a system of pipe-line and hose is used for watering the dry dusty sections. The law relative to powder and oil is strictly enforced. Second opening in good condition. This mine is in first-class condition. Rules are posted. Safety lamps and stretchers on hand.

W. M. GILLIE, Supt.

JOHN ELSWICK, Mine Foreman.

CLAY COUNTY.

DORFEE COAL & MINING COMPANY.

P. O., DORFEE, W. VA.

Series No. 578. *Elk Manor Mine*.—Located at Dorfee, on the main line of the Coal & Coke R. R. It is a drift, operating in the Winifrede Seam, varying in thickness from four and a half to five feet. The roof is slate and sandstone which is generally good throughout the mine. The developments are on the double entry system ventilated by an eight-foot fan which furnishes sufficient air for the proper ventilation of the mine. Cross-cuts between entries and rooms are driven at the regular distances. Mine doors and stoppings in fair condition. Drainage good. Second opening in good condition. The law relative to rules, safety lamps and stretchers complied with. Owing to the depression in the coal business this mine has not been operated to its full capacity, having been idle a considerable part of the time.

HENRY BROOKE, Supt.

T. L. PUGH, Mine Foreman.

ELK RIVER COAL & LUMBER COMPANY.

P. O., CLAY, W. VA.

Series No. 579. *Dundon No. 1 Mine*.—This mine is located near Clay on the main line of the Coal & Coke R. R. It is a drift, operating the Coal-burg Seam, varying in thickness from four to five feet, with slate and sandstone roof which is generally good and well timbered. The mine is developed on the double entry system, ventilated by an eight-foot fan with good results. Cross-cuts between entries and rooms are driven at the regular distances; doors and stoppings in fair condition. The second opening is in good condition. The law, relative to rules, safety lamps, and stretchers complied with. During the year an electric plant and mining machines were installed at this mine.

A. C. FINLEY, Supt.

DAVID STODDARD, Mine Foreman.

BRAXTON COUNTY.

P. O., COPEX, W. VA.

Series No. 580. *Copen No. 11 Mine*.—Located at Copen on the main line of the Coal & Coke R. R. It is a drift, operating in the Pittsburg Seam varying in thickness from four to seven feet. The roof is slate and of a dangerous character, requiring the use of a large amount of timber to insure safety. As a rule the working places were well timbered. Developments are on the double entry system, ventilated by a furnace with fair results for the number of persons employed. Cross-cuts between entries and rooms are driven at the proper distances. Doors and stoppings in fair condition. The second opening meets with the requirements of the law. Rules are posted; safety lamps and stretchers on hand.

R. D. EDWARDS, Supt.

WILLIAM MARTIN, Mine Foreman.

DAVIS COLLIERY COMPANY.

P. O., BOWER, W. VA.

Series No. 581. *Bower No. 10 Mine*.—This is a drift mine located at Bower, on the Coal & Coke R. R., operating in the Pittsburg Seam varying in thickness from four to seven feet with a slate roof of a dangerous character requiring the use of a great deal of timber to insure safety. The management gives close attention to the timbering, and as a rule the working places are properly timbered. The mine is developed on the double entry system. Cross-cuts between entries and rooms are driven at the proper distances. During the year a twelve-foot fan was installed and as there are several openings to this mine that can be used as in-take air-ways, this makes a great improvement over the old system of ventilating by temporary furnaces. No mining machines are used at this mine, only pick miners being employed, and the coal is properly mined. The second opening is in good condition. The law regarding rules, safety lamps, and stretchers complied with.

R. D. EDWARDS, Supt.

D. D. EDWARDS, Mine Foreman.

GILMER COUNTY.

COSMOPOLITAN COAL & COKE COMPANY.

P. O., EMMERT, W. VA.

Series No. 582. *Gilmer No. 1 Mine*.—This is a drift mine, located at Gilmer on the Coal & Coke R. R., operating in the Pittsburg Seam varying in thickness from five to eight feet. The roof is slate and of a dangerous character requiring a great deal of timber to be used to insure safety. The miners are well supplied with timber, and as a rule, the working places are well timbered. The mine is developed on the double entry system, ventilated by a temporary furnace with fair results, there being

only a few persons employed. Cross-cuts between entries and rooms driven at the proper distances. Mine doors and stoppings in good condition. System of drainage only fair. The second opening in good condition. This mine has not been developed to any great extent during the past year, having been idle a greater portion of the time. Law relative to rules, safety lamps and stretchers complied with.

W. H. MARTIN, Supt.

JOSEPH CHADWICK, Mine Foreman.

SIXTH DISTRICT.

GENERAL SUMMARY OF THE SIXTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYES.								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals.	Sum Totals	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Kana. (prt)	66	14	439	1,372	340	715	2,866	442	---	442	3,308	2,221,868	---
Boone	4	---	16	---	---	4	20	3	---	3	23	3,451	---
Rt'gh (prt)	1	1	8	101	14	39	162	34	---	34	196	166,312	---
Totals..	71	15	463	1,473	354	758	3,048	479	---	479	3,527	2,391,631	---

OFFICE OF THE SIXTH DISTRICT MINE INSPECTOR.

Chelyan, W. Va., June 30, 1909.

MR. JOHN LAING,

Chief of Department of Mines,
Charleston, W. Va.

DEAR SIR:—In compliance with the mining law I herewith submit to you my annual report as Inspector of the Sixth Mining District of West Virginia for the year ending June 30th, 1909.

During the year I made 181 regular inspections and 32 extra visits to various mines in this district, and also spent some time on, joint inspections in the 8th, 10th and 11th districts.

Five fans were installed and four more are on the ground and will be put to work in the near future.

Four new mines in this district began shipping coal during the year, two in Kanawha county, Raccoon Splint mine and Chelyan Fuel Station. Two in Boone county, No. 1 mine, of the Coal River Company, and Ramage mine of the Spruce River Coal Company.

Eight persons were prosecuted in this district during the year for violating the mining laws.

There has been some improvement made in the sanitary conditions as well as the general safety of the mines in this district, but I am very sorry to report that there were fourteen fatal and forty-two non-fatal accidents in this district within the past year, and I do know this num-

ber is too large and can be reduced if the miner as well as the company officials will use more judgment, or in other words, if they will attend more strictly to their own duties, and when the coal or roof is loose see that it is made safe before they go or permit any one else to venture under it. It is almost impossible for the inspector to see that all places are made safe by placing timber where it is needed for right at the working faces are where the greatest number of men lose their lives. According to section 15 of the Mining Law it is the mine foreman's duty to visit each working place every alternate day and see that they are safe, and it should also be the duty of the superintendent or manager to see that this mine foreman is not over-burdened with work to hinder him from performing this duty.

At present there is no law in regard to electric wires in coal mines, and a large number of the operators are imposing on the liberties they enjoy along this line, which if continued will result in drastic legislation. It has been proven that coal dust is explosive and that the operator or officials do neglect to keep all parts of the mine watered so as to allay dust, and that the miners do sometimes use very poor judgment in placing black powder, and with these facts at hand, I can not see why the dangers of mine explosions would not be lessened by either the use of safety powder, shot firers or shot inspectors.

In conclusion I wish to say that I am pleased with the progress that has been made towards bettering the conditions in the mines in this district during the year, and I wish to thank both company officials and miners for the courteous treatment received from them during the year. I also wish to thank you for the kind treatment and assistance received.

Very respectfully submitted,

BONNER H. HILL,

Inspector Sixth District.

CONDITION OF THE MINES IN THE SIXTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 613 indicates the Sixth district and number 13 mine.

KANAWHA COUNTY.

PAINT CREEK COLLIERIES COMPANY.

Series No. 601. *Reynolds Mine.*—This mine is located twenty-two miles from St. Albans on the Kanawha Central R. R., and Brier Creek, a tributary of Coal River. It is a drift opening operating the Black Band coal on the double entry system.

The ventilation produced by an eight foot Thayer fan is good. In some parts of the mine the roof is not good, but timbering is well looked

after. A larger amount of water is liberated in some parts of the mine and drainage is only fair. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated April 20th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 550 tons per day. This mine was reported last year as Reynolds Mine No. 601 of the printed report.

S. E. CHILDRESS, Supt.

WM. CLENDENIN, Mine Foreman.

C. W. ROGERS, Gen. Mgr.

OLCOTT COAL & IRON COMPANY.

Series No. 602. *No. 2 Mine.*—This mine is located on the Kanawha Central R. R. and Brier Creek, a tributary of Coal River; is a drift opening operating the Black Band coal on the double entry system. The ventilation produced by two seven-foot Thayer fans is good. In some parts of the mine the roof is bad but timbering is well looked after. Drainage is good except in one drift where some water is liberated. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine, dated Dec. 31, 1908, has been furnished this office. Owing to the depression in business this mine was closed during March, for an indefinite period. With the present mine development and full force of men this mine is capable of producing 540 tons per day. This mine was reported last year as Mine No. 2, No. 602 of the printed report.

F. H. PALMER, Supt.

GEORGE CAREY, Mine Foreman.

Series No. 603. *No. 1 Mine.*—This mine is located on the Kanawha Central R. R. and Brier Creek, a tributary of Coal River; is a drift opening operating the Black Band Coal on the double entry system. The ventilation, produced by five seven-foot Thayer fans is good. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. The second opening to this mine meets all the requirements of the law. Drainage and roof are good. A map showing the workings of this mine dated December 31, 1908, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 425 tons per day. This mine was reported last year as No. 1 Mine, No. 603 of the printed report.

F. H. PALMER, Supt. B. F. THORNE and GEO. CAREY, Mine Foremen.

PAINT CREEK COLLIERIES COMPANY.

Series No. 604. *Knickerbocker Mine.*—This mine is located on the Kanawha Central R. R. and Brier Creek, a tributary of Coal River; is a drift opening operating the Black Band coal on the double entry system. The ventilation produced by four furnaces is fair. The roof in some sections of the mine is bad but timbering well looked after. Owing to

the large quantity of water liberated in some parts of the mine, drainage is not good. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine dated April 20, 1909, has been furnished this office. A large per cent. of the coal in this mine is shot from the solid, shot inspectors being employed by the company. With the present mine development and equipment and full force of men this mine is capable of producing 425 tons per day. This mine was reported last year as Knickerbocker Mine No. 604 of the printed report.

L. E. CHILDRESS, Supt.

WILL MILLER, Mine Foreman.

C. W. ROGERS, Gen. Mgr.

BLACK BAND COAL & COKE COMPANY.

Nos. 607-8-9-10. *Black Band Mines Nos. 1, 2, 3 and 5.*—These mines are located on Davis Creek and operate the Black Band coal, but were idle during the entire year and no inspections of them were made.

These mines were reported last year as Black Band Mines Nos. 1, 2, 3 and 5, Nos. 607-8-9-10 of the printed report.

THE MARMET COAL COMPANY.

Series No. 612. *Butler Mine.*—This mine is located on the West Virginia Southern R. R. and Lens Creek, a tributary of Kanawha River; is a drift opening operating the Winifrede Coal on the double entry system. All work in this mine consists of robbing except in one set of entries. The ventilation produced by a seven-foot Thayer fan is fair. The roof is good. Drainage fair. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding oil, rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated June 6th, 1908, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 300 tons per day. This mine was reported last year as Butler Mine, No. 612 of the printed report.

R. T. PRICE, Gen. Mgr.

L. L. SELBE, Mine Foreman.

J. W. STRAUGHAN, Supt.

Series No. 613. *Butler No. 5 Mine.*—This mine was located on the West Virginia Southern R. R. and Lens Creek, a tributary of Kanawha River; was a drift opening operating the No. 5 coal. For reasons unknown to the inspector this mine was abandoned during April. The tracks and all machinery being moved from the mine. This mine was reported last year as Butler No. 5 Mine, No. 613 of the printed report.

R. T. PRICE, Gen. Mgr.

JOHN W. SHEPPARD, Mine Foreman.

J. W. STRAUGHAN, Supt.

Series No. 614. *Butler No. 2 Mine.*—This mine is located on the West

Virginia Southern R. R. and Lens Creek, a tributary of Kanawha River; is a drift opening operating the Lens Creek coal on the double entry system. In some parts of the mine the roof is not good. The ventilation produced by a ten foot Thayer fan is fairly good, but timbering is fairly good. The second opening to this mine meets all the requirements of the law. This mine is very dry and in some parts is dusty, which necessitates watering to allay the dust. The coal is very thin and undercut by electric chain machines and only requires a small amount of explosives to bring the coal down. The law is fully complied with regarding rules, stretchers, safety lamp, and anemometer. For some reason unknown to the inspector this mine was indefinitely closed during the month of May. With the present mine development and equipment and full force of men this mine is capable of producing 250 tons per day. This mine was reported last year as Butler No. 2 mine, No. 614 of the printed report.

R. T. PRICE, Gen. Mgr.

J. B. GRIFFITH, Mine Foreman.

J. W. STRAUGHAN, Supt.

FRANK ELLISON, OR THE PEERLESS COAL COMPANY.

Series No. 615. *Peerless Mine*.—This mine is located at Winifrede Junction on the C. & O. R. R.; is a drift opening operating the Peerless coal on the double entry system. Owing to the size and bad condition of the air-ways the ventilation produced by a six-foot Thayer fan is only fair. Roof is good. Drainage is only fair. The law is fully complied with regarding oil, stretchers, safety lamp, and anemometer. The second opening to this mine meets all the requirements of the law. A map, showing the workings of this mine dated February 9th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 130 tons per day. This mine was reported last year as Peerless mine, No. 615 of the printed report.

A. M. WOOLRIDGE, Supt.

JAS. HEMMINGS, Mine Foreman.

WINIFREDE COAL COMPANY.

Series No. 617. *West Mine*.—This mine is located on the Winifrede R. R. and Fields Creek; is a drift opening operating the Winifrede coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is good. In the west side of the mine the roof is very bad and dangerous and in some of the working places it is almost impossible to make them safe by timbering. Drainage is fair. The second opening to this mine meets all the requirements of the law. The law is complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated March 26, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 600 tons per day. This mine was reported last year as West Mine, No. 617 of the printed report.

WM. CRICHTON, Supt.

E. E. DOBBS, Mine Foreman.

Series No. 618. *South Mine*.—This mine is located on the Winifrede R. R. and Fields Creek; is a drift opening operating the Winifrede coal on the double entry system. The ventilation produced by a ten foot Thayer fan has been made fairly good by replacing wood stoppings with stone laid in mortar. A split has also been put in the air by a good overcast built of stone and cement. In some parts of the mine the roof is very bad and dangerous and requires the setting of timber very close to the faces to make it safe. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated March 24, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 525 tons per day. This mine was reported last year as the South mine, No. 618 of the printed report.

WM. CRICHTON, Supt. D. W. RICHARDS, Mine Foreman.

Series No. 619. *North Machine Mine*.—This mine is located on the Winifrede R. R. and Fields Creek; is a drift opening operating the Winifrede coal on the double entry system. The ventilation produced by a six foot Thayer fan is fair. The work in this mine consists of robbing and in some parts of the mine the roof is bad which necessitates very careful timbering to keep the working places safe. In some parts of the mine are large bodies of water and large pillars of good coal are being lost on account of the company not providing pumps to move the water. It has been with much insisting on the part of the inspector to have the mine foreman's record book properly kept. At time of inspection of this mine the second opening did not meet the requirements of the law, but less than 20 men were employed inside and a notice was served on the company officials not to employ more than that number until it was put in a lawful condition. A map showing the workings of this mine dated March 24, 1909, has been furnished this office. With the present mine development and full force of men this mine is capable of producing 250 tons per day. This mine was reported last year as North Machine Mine No. 619 of the printed report.

WM. CRICHTON, Supt.

JOHN MORRISON, Mine Foreman.

Series No. 620. *North Pick Mine*.—This mine is located on the Winifrede R. R. and Fields Creek; is a drift opening operating the Winifrede coal on the double entry system. The ventilation produced by a ten and a six-foot Thayer fans, is fair. A number of wood stoppings have been replaced by more substantial ones built of stone and cement. An overcast built of stone making a split in the air current is quite an improvement to the ventilation in this mine. Roof is fair. In the workings the drainage is good but the old workings and return air-ways are flooded and the pumps are too small to keep the water out. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. The second opening to this mine is through the South Mine. A map showing the workings of this mine dated March 24, 1909, has been furnished this office. With the present mine development and

equipment and full force of men this mine is capable of producing 600 tons per day. This mine was reported last year as the North Pick Mine, No. 620 of the printed report.

WM. CRICHTON, Supt.

W. H. STUART, Mine Foreman.

DRY BRANCH COAL COMPANY.

Series No. 621. *Gas or No. 1 Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the Peerless coal on the double entry system. Small feeders of gas have been found in this mine but the ventilation produced by a seven-foot Thayer fan has been found sufficient to render it harmless, and keep the mine in a good sanitary condition. The roof and drainage are good. The second opening to this mine meets all the requirements of the law. The law was fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. A map showing the workings of this mine dated May 15, 1908, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 140 tons per day. For some cause unknown to the inspector this mine was closed during October and it is not known when it will resume operation. This mine was reported last year as Gas or No. 1 Mine No. 621 of the printed report.

C. G. WOOD, Supt.

Series No. 622. *No. 2 Mine.*—This mine is located on the Cabin Creek Branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the Coalburg coal on the double entry system. The ventilation produced by a six-foot Thayer fan is good. From six to ten inches of coal is left next to the roof which protects it from the air but does not make a desirable or safe roof. The drainage is good. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. A very hard slate from five to twenty inches thick is found near the center of this coal, and safety powder is used to break this slate and shoot down the coal, which performs the work better and with more safety than black powder. A map showing the workings of this mine dated January 15, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 225 tons per day. This mine was reported last year as Coalburg or No. 2 Mine, No. 622 of the printed report.

C. G. WOOD, Supt.

GEO. STONE, Mine Foreman.

R. M. ODELL, Asst. Mine Foreman.

Series No. 623. *No. 3 Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the Belmont coal on the double entry system. The ventilation produced by a seven-foot Thayer fan is fair. In some parts of the mine the roof is very bad and dangerous but timbering is fairly well looked after. This mine is dry and in some sections has a small deposit of dust which necessitates watering in the winter season to allay the dust. The second

opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometers. A map showing the workings of this mine dated January 15, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 270 tons per day.

This mine was reported last year as Belmont or No. 3 Mine, No. 623 of the printed report.

C. G. WOOD, Supt.

GEO. STONE, Mine Foreman.

COALBURG COLLIERY COMPANY.

Series No. 624. *Ronda Mine*.—This mine is located on the Cabin Creek branch of C. & O. R. R. and Cabin Creek; is a drift opening operating the Coalburg coal on the double entry system. The ventilation produced by a six-foot Thayer fan is good, but for the future development of this mine an over-cast and a better class of stoppings are greatly needed. In some parts of the mine the roof is bad but timbering is well looked after. Drainage is good. The law is fully complied with regarding powder, rules, stretchers, safety lamps and anemometer. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine dated January 20, 1909, has been furnished this office. With the present mine development and equipment and full force of men, this mine is capable of producing 600 tons per day.

This mine was reported last year as Ronda Mine, No. 624 of the printed report.

D. S. HASTINGS, Supt.

C. F. SLACK, Mine Foreman.

WYATT COAL COMPANY.

Series No. 625. *North Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the Coalburg coal on the double entry system. The ventilation produced by a ten-foot Crawford & McCrimmon fan was good, but during October, 1908, the fan house was burned which destroyed the fan and it has not been replaced nor has the mine been operated since. The roof is fair. Drainage good. A map showing the workings of this mine dated November 12, 1908, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 125 tons per day. This mine was reported last year as North Mine No. 625 of the printed report.

J. S. MILLER, Supt.

WYATT COAL COMPANY.

Series No. 626. *South Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift opening operating the Coalburg Coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is fair. The roof is good. Drainage fair.

The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety-lamps and anemometer. A map showing the workings of this mine dated May 20, 1909 has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 575 tons per day. This mine was reported last year as South mine No. 626 of the printed report.

J. S. MILLER, Supt.

JOHN PETTRY, Mine Foreman.

PERSINGER COAL COMPANY.

Series No. 627. *Wilton Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Cedar Grove Coal on the double entry system. The ventilation, produced by a fan, is fair. The roof is good. Drainage fair. The law is fully complied with regarding oil, rules, stretchers, safety lamps and anemometer. The second opening to this mine is a door beside the fan, but an additional opening is now being made and twenty men are not employed inside the mine. A map showing the workings of this mine dated July 1st, 1908, has been furnished this office.

With the present mine development and full force of men this mine is capable of producing 100 tons per day.

This mine was reported last year as Wilton Mine No. 627 of the printed report.

J. T. McALLISTER, Supt.

C. H. McALLISTER, Mine Foreman.

WYATT COAL COMPANY.

Series No. 628. *Oakley Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Lewiston Coal on the double entry system. The ventilation, produced by a seven-foot Thayer fan, is fairly good, and it is the intention of the management to move the fan to an opening nearer the workings, which will greatly improve the ventilation. The roof is good; Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. A map showing the workings of this mine dated May 20, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as Oakley mine No. 628 of the printed report.

J. S. MILLER, Supt.

E. W. GLOVER, Mine Foreman.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 629. *Davis Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Lewiston coal on the double entry system. The ventilation, produced by four and eight-foot Thayer fans, is good. Roof is good. Drainage good.

except in one haulway. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine dated February 24, 1909 has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as Davis mine No. 629 of the printed report.

IRA F. DAVIS, Gen. Mgr.

R. E. THOMPSON, Mine Foreman.

JOHN LAING, Receiver, LA MONT MINING COMPANY.

Series No. 630. *Nos. 1 and 2 Mines.*—These mines are located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; are drift-openings operating the No. 2 Gas coal on the double entry system. The ventilation, produced by a four-foot Thayer fan, is good. Roof is good. Drainage good. Some parts of the mine are very dry and has some dust which necessitates watering to allay the dust. The coal is quite thin and does not require a large quantity of explosives to bring the coal down. The second opening to this mine is a door beside the fan, but twenty men are not employed inside the mine. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer.

A map, showing the workings of this mine dated February 1st, 1909, has been furnished this office. This practically is one mine but the operating Company called it No. 1 and 2 mines. With the present mine development and full force of men these mines are capable of producing 125 tons per day. These mines were reported last year as La Mont Nos. 1 and 2 mines No. 630 of the printed report.

PAUL L. JAMES, Supt.

W. T. GOSNAY, Mine Foreman.

G. B. COMBS, Supt.

Series No. 631. *No. 3 Mine.*—This mine is located on Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Lewiston coal on the double entry system. The ventilation, produced by a six-foot Thayer fan, is good. Roof is fair. Drainage fair. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as La Mont No. 3 Mine No. 631 of the printed report.

PAUL L. JAMES, Supt.

W. T. GASWAY, Mine Foreman.

G. B. COMBS, Supt.

HOLLEY AND STEPHENSON COAL & COKE COMPANY.

Series No. 632. *No. 1 Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek, is a drift-opening operating

the No. 2 Gas Coal. This mine was not in operation during the past year and no inspection was made.

This mine was reported last year as No. 1 mine No. 632 of the printed report.

F. H. McCLUNG, Supt.

Series No. 633. *No. 2 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation, produced by an eight-foot Thayer fan, is good. Roof and drainage are good. Some parts of this mine are very dry and dusty which necessitates watering to allay the dust. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding oil, rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 12, 1909, has been furnished this office. With a full force of men and present mine development and equipment this mine is capable of producing 500 tons per day.

This mine was reported last year as No. 2 mine No. 633 of the printed report.

F. H. McCLUNG, Supt.

J. M. McDONOUGH, Mine Foreman.

Series No. 634. *Coalburg Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg Coal on the double entry system. This mine has been idle during the past year and no inspection was made.

This mine was reported last year as Coalburg mine No. 634 of the printed report.

F. H. McCLUNG, Supt.

Series No. 635. *No. 5 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Lewiston Coal on the double entry system. The ventilation, produced by a seven-foot Thayer fan, is good. This mine has an entire system of overcasts, no doors being used inside the mine. Drainage is good. The roof is very bad and dangerous if the draw slate is not taken down as the coal comes out. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps, powder and anemometer. A map showing the workings of this mine dated January 12, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 300 tons per day. This mine was reported last year as No. 5 Mine No. 635 of the printed report.

F. H. McCLUNG, Supt.

D. D. HEMMINGS, Mine Foreman.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 636. *Cherokee Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventila-

tion, produced by a six-foot Thayer fan, is good. Roof is only fair. Drainage good except in No. 3 drift. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding oil, rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 4th, 1909 has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 375 tons per day. This mine was reported last year as Cherokee Mine No. 636 of the printed report.

H. L. FISHER, Supt.

ANDREW YECK, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 637. *Caledonia Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a furnace and eight-foot Thayer fan, is fairly good. In some parts of the mine the roof is not good and careful timbering is required to keep the working places safe. Drainage is good except in one entry. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. The second opening to this mine is a door beside the fan, which meets all the requirements of the law. A map showing the workings of this mine dated January 28, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 150 tons per day. This mine was reported last year as Caledonia Mine No. 637 of the printed report.

H. L. FISHER, Supt.

H. M. DANIELS, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 638. *Red Warrior Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is fair.

In some parts of the mine the roof is very bad but the timbering has been much improved during the past year. Drainage is fair. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 27, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as Red Warrior Mine, No. 638 of the printed report.

H. L. FISHER, Supt.

JOHN W. GAY, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 639. *Buckeye Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a four-foot Thayer fan is fairly good. In some parts of the mine the roof is not good and it is necessary to take down a bad draw

slate as the coal is taken from under it. Drainage is good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 6th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 250 tons per day. This mine was reported last year as Buckeye Mine, No. 639 of the printed report.

M. W. MURPHY and J. A. STRAUGHAN, Supts.

IRA F. DAVIS, Gen. Mgr.

WM. COINER, Mine Foreman.

Series No. 640. *Empire Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a fan is fair. The roof is fair. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer.

A map showing the workings of this mine dated February 16, 1909, has been furnished this office. With the present mine development and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as Empire Mine, No. 640 of the printed report.

M. W. MURPHY and J. A. STRAUGHAN, Supts.

S. J. COINER and J. T. BALDWIN, Mine Foremen.

IRA F. DAVIS, Gen. Mgr.

Series No. 641. *Black Tulip Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a five-foot Thayer fan is good. Roof is fair. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 6th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 200 tons per day.

This mine was reported last year as Black Tulip mine, No. 641 of the printed report.

M. W. MURPHY and J. A. STRAUGHAN, Supts.

IRA F. DAVIS, Gen. Mgr.

FRANK SHERER, Mine Foreman.

Series No. 642. *Keystone Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a ten-foot Crawford and McCrimmon fan is good. In some parts of the mine the roof is bad, and along one haulway the roof has been very badly broken by a creep. The second opening to this mine meets all the requirements of the law. The law is fully complied with

regarding rules, stretchers, safety lamps and anemometer. In some parts of this mine it is very dry and dusty which necessitates watering to allay the dust. A map showing the workings of this mine dated February 12, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 500 tons per day. This mine was reported last year as Keystone Mine, No. 642 of the printed report.

M. W. MURPHY and J. A. STRAUGHAN, Supts.

IRA F. DAVIS, Gen. Mgr.

JOHN T. SCOTT, Mine Foreman.

Series No. 643. *Acme Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg Coal on the double entry system. This is a very old mine and the stoppings and air-ways are in bad shape, but the ventilation produced by a six-foot Thayer fan is fair. The roof is fair. Drainage good. The second opening to this mine does not meet the requirements of the law, but a new one is being made and not more than twenty men are employed inside the mine. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated December 16, 1908, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 150 tons per day. This mine was reported last year as Acme mine, No. 643 of the printed report.

M. W. MURPHY and J. A. STRAUGHAN, Supts.

IRA F. DAVIS, Gen. Mgr.

R. G. POFF, Mine Foreman.

Series No. 644. *Shamrock Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a ten-foot Thayer fan is good. The wooden stoppings along the main entry have been replaced with concrete and a split has been made in the air by a good overcast, which goes to show that the management of this mine is good. Drainage is good. The second opening to this mine meets all the requirements of the law. Roof is good except in one set of entries. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 19, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 850 tons per day. This mine was reported last year as Shamrock Mine, No. 644 of the printed report.

W. A. OTEY, Supt.

J. A. BRAGG, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 645. *Thistle Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a ten-foot Thayer fan is fair. The air ways as well as some of the stoppings in this mine are in bad shape. This mine is very dry

throughout and in some sections is dusty, which necessitates watering to allay the dust. The roof is good. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine dated February 3, 1909, has been furnished this office. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. With the present mine development and equipment and full force of men this mine is capable of producing 500 tons per day. This mine was reported last year as Thistle Mine No. 645 of the printed report.

W. A. OTEY, Supt.

T. B. FISHER, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 646. *Raccoon Gas Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a ten-foot Thayer fan is fairly good, but for the future development of this mine a better class of stoppings and an overcast are greatly needed. Roof is good except in one section where it is bad. Drainage good and in some sections it is dry, which necessitates watering to allay the dust. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 2nd, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 350 tons per day. This mine was reported last year as Raccoon Mine, No. 646 of the printed report.

W. A. OTEY, Supt.

JOHN DOWER, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 647. *Rose Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg coal on the double entry system. The ventilation produced by a furnace is not good but a fan is on the ground and will be installed within the next few days. The roof is good. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 8th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as Rose Mine No. 647 of the printed report.

W. A. OTEY, Supt.

C. E. JARNSCH and WM. HOLMES,

IRA F. DAVIS, Gen. Mgr.

Mine Foremen.

Series No. 648. *Kayford No. 1 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a ten-foot Thayer fan is good. Great improvement has been made on the stoppings in this mine during the past year and a good overcast is now under way of construction, which when completed will put

an additional split in the air. Small gas feeders are found in a part of the mine but the ventilation is sufficient to render it harmless. The roof is good. Drainage fair. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 8, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 700 tons per day. This mine was reported last year as Kayford Mine No. 648 of the printed report.

W. A. OTEY, Supt.

M. DARBY, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 649. *Holly Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is fair, but for the future development of this mine a better class of stoppings are greatly needed. The roof is fair. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps, and anemometer. A map showing the workings of this mine dated January 2, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 450 tons per day. This mine was reported last year as Holly Mine, No. 649 of the printed report.

H. L. FISHER, Supt.

M. J. FISHER, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 650. *Quarrier Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is good. For the future development of this mine a better class of stoppings are needed. The roof is fair. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 2, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 450 tons per day. This mine was reported last year as Quarrier Mine, No. 650 of the printed report.

H. L. FISHER, Supt.

J. W. BRANHAM, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

WAKE FOREST MINING COMPANY.

Series No. 651. *Wake Forest Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a six and seven-foot fan is fairly good, but a better class of stoppings are greatly needed for the future development of this mine.

A large part of this mine is very dry and requires watering to allay the dust. In some parts of the mine the roof is very bad and requires close timbering to make it safe. The second opening meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 435 tons per day. This mine was reported last year as Wake Forest Mine, No. 651 of the printed report.

J. C. GRYMES, Supt.

JESSE GARDENER and F. W. MANDT,

Mine Foremen.

WYATT COAL COMPANY.

Series No. 652. *Berlin Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a seven-foot Thayer fan is fairly good, but for the future development of this mine a better class of stoppings and an overcast are greatly needed. The roof is fair. Drainage only fair. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. The second opening to this mine meets all the requirements of the law. A map showing the workings of this mine dated May 20, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 500 tons per day. This mine was reported last year as Berlin Mine, No. 652 of the printed report.

J. S. MILLER, Supt.

WILL MANDT, Mine Foreman.

CARBON COAL COMPANY.

Series No. 653. *North Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas Coal on the double entry system. The ventilation produced by a seven-foot Stine fan is only fair. A larger part of the work in this mine has been robbing and the doors and stoppings are in bad repair. Roof is generally good. In some parts of the mine drainage is poor. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers safety lamps and anemometers.

A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 225 tons per day. This mine was reported last year as North Mine, No. 653 of the printed report.

J. C. GILMORE, Supt.

C. A. PIERCE, Mine Foreman.

C. A. CABELL, Gen. Mgr.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 654. *Ruby Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg coal on the double entry system. The ventilation produced by a four-foot Stine fan is good. The roof is very bad and close timbering is required to make it safe. Drainage is good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 12, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 225 tons per day. This mine was reported last year as Ruby Mine, No. 654 of the printed report.

A. P. SHERER, Supt.

H. E. ROBERTS, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

WEST VIRGINIA COLLIERY COMPANY.

Series No. 655. *No. 1 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a ten-foot Stine fan is fair. Some improvement has recently been made in the ventilation by repairing the doors and stoppings. In some parts of the mine the roof is bad and requires close timbering. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 800 tons per day. This mine was reported last year as No. 1 Mine, No. 655 of the printed report.

K. D. QUARRIER, Supt.

T. A. McGARY, Mine Foreman.

C. A. CABELL, Gen. Mgr.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 656. *United Gas Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is fair. A larger fan is now on the ground and will be installed in the near future. The roof in this mine is very bad and dangerous if not taken down or properly timbered. The drainage is fair.

The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine

is capable of producing 750 tons per day. This mine was reported last year as United Gas Mine, No. 656 of the printed report.

A. P. SHERER, Supt.

JOHN TITLOW, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

Series No. 657. *United Splint Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg coal on the double entry system. The ventilation produced by a furnace is not good, but a fan is on the ground and will be installed soon as possible. The roof is very bad and dangerous if not taken down or closely timbered. Drainage is good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated January 14th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 275 tons per day. This mine was reported last year as United Splint Mine No. 657 of the printed report.

A. P. SHERER, Supt.

D. S. HOLMES, Mine Foreman.

IRA F. DAVIS, Gen. Mgr.

WEST VIRGINIA COLLIERY COMPANY.

Series No. 658. *No. 2 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by two furnaces and from natural causes is only fair. The roof in this mine is very bad and dangerous if not taken down or properly timbered. This mine consists of several drifts or openings and only a small number of men are employed in each. The drainage is fairly good.

The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 200 tons per day.

This mine was reported last year as No. 2 Mine, No. 658 of the printed report.

K. D. QUARRIER, Supt.

J. C. SMITH, Mine Foreman.

C. A. CABELL, Gen. Mgr.

Series No. 659. *No. 3 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg coal on the double entry system. The ventilation produced by a seven-foot Stine fan, furnace and from natural causes is fairly good. The roof is good. Drainage good.

This mine consists of several drifts or openings and only a small number of men are employed in each. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished

this office. With the present mine development and equipment and full force of men this mine is capable of producing 450 tons per day. This mine was reported last year as No. 3 Mine, No. 659 of the printed report.

K. D. QUARRIER, Supt. C. L. PETTY, Mine Foreman.
C. A. CABELL, Gen. Mgr.

Series No. 660. *No. 4 Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by two seven-foot Stine fans is fairly good. In some parts of the mine the roof is very bad and requires to be taken down or kept closely timbered. The drainage is not good. The second opening meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 350 tons per day. This mine was reported last year as No. 4 Mine, No. 660 of the printed report.

K. D. QUARRIER, Supt. EDWARD STANLEY, Mine Foreman.
C. A. CABELL, Gen. Mgr.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 661. *Belleclare Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by three and eight-foot Thayer fans is fair. What is known as the Old part of this mine has not been in operation during the past year. The roof is fair. Drainage good. The second opening to this mine meets all the requirements of the law.

The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 11, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 300 tons per day.

This mine was reported last year as Belleclare Mine, No. 661 of the printed report.

A. P. SHERER, Supt. JOE FILKINS, Mine Foreman.
IRA F. DAVIS, Gen. Mgr.

CARBON COAL COMPANY.

Series No. 662. *South Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. Owing to the bad condition of the doors and stoppings the ventilation produced by three seven-foot Stine fans is only fair. I have insisted that two of the ventilating fans which are set inside the mine be moved to the outside. The roof and drainage are fair. In some parts of the mine it is very dry

which necessitates watering to allay the dust. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 600 tons per day.

This mine was reported last year as South Mine, No. 662 of the printed report.

J. C. GILMOURE, Supt.

W. T. IVES, Mine Foreman.

C. A. CABELL, Gen. Mgr.

Series No. 663. *Carbon Splint Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the Coalburg coal on the double entry system. The ventilation produced by an eight-foot Thayer fan is fairly good, but a better class of stoppings and an overcast are greatly needed for the future development of this mine. The roof is good. Drainage fairly good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office.

With the present mine development and equipment and full force of men this mine is capable of producing 600 tons per day. This mine was reported last year as No. 5 or Splint Mine, No. 663 of the printed report.

J. C. GILMOURE, Supt.

C. V. RHODES, Mine Foreman.

C. A. CABELL, Gen. Mgr.

REPUBLIC COAL COMPANY.

Series No. 664. *No. 1 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., and Cabin Creek; is a drift-opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a seven-foot Stine fan is fair, but a much better class of stoppings are greatly needed for the future development of this mine. The fan sets inside the mine and I have insisted that it be moved to the outside which the management has promised to do. The roof is very bad and requires very close timbering to make it safe. Drainage is good and in some parts of the mine it is very dry, which necessitates watering to allay the dust. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and full force of men this mine is capable of producing 400 tons per day. This mine was reported last year as No. 1 Mine, No. 664 of the printed report.

J. C. GILMOURE, Supt.

C. A. HUGHES, Mine Foreman.

C. A. CABELL, Gen. Mgr.

Series No. 665. *No. 2 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a seven-foot Stine fan is fairly good. The roof is good. This mine is dry throughout, which necessitates watering to allay the dust. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 300 tons per day.

This mine was reported last year as No. 2 mine, No. 665 of the printed report.

J. C. GILMOURE, Supt.

OWEN MEADOWS, Mine Foreman.

C. A. CABELL, Gen. Mgr.

Series No. 666. *No. 3 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the No. 2 Gas coal on the double entry system. The ventilation produced by a seven-foot Stine fan is fairly good. This mine is dry throughout, which necessitates watering to allay the dust. Roof is good.

The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 1st, 1909, has been furnished this office. The fan at this mine sets inside the mine and I have insisted that it be moved to the outside which the management has promised to do. With the present development and equipment and full force of men this mine is capable of producing 300 tons per day. This mine was reported last year as No. 3 Mine, No. 666 of the printed report.

J. C. GILMOURE, Supt.

J. K. GENTRY, Mine Foreman.

C. A. CABELL, Gen. Mgr.

CHELYAN FUEL COMPANY.

Series No. 667. *Chelyan Mine*.—This mine is located near Cabin Creek Junction, on the main line of the C. & O. R. R.; is a drift opening operating the Peerless coal. This mine supplies the C. & O. R. R. some fuel coal. It consists of two openings under cover only a short distance and the ventilation produced from natural causes is fair. This is a new mine; began putting out coal April 24, 1909, and at time of inspection was working six men inside the mine.

S. A. LEWIS, Supt.

WM. ROLLINS, Mine Foreman.

CABIN CREEK CONSOLIDATED COAL COMPANY.

Series No. 668. *Kayford No. 2 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a slope opening operating the No. 2 Gas coal on the double entry system. This mine

was operated in connection with the Kayford No. 1 mine until a few months ago, when it began operation by a system and tippie of its own. The ventilation produced by a ten-foot Thayer fan is fairly good. Roof and drainage are good. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated February 8th, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 350 tons per day. This mine was reported last year with the Kayford No. 1 Mine.

W. A. OTEY, Supt.

M. DARBY and P. L. ROSE, Mine Foremen.

IRA F. DAVIS, Gen. Mgr.

Series No. 669. *Raccoon Splint Mine*.—This is a new mine and located on the Cabin Creek branch of the C. & O. R. R. and Cabin Creek; is a drift opening operating the Coalburg coal on the double entry system. This mine consists of several openings and the ventilation produced by natural causes is fair, but a fan is on the ground and will be installed in the near future. This mine began shipping coal February 5th, 1909, and with the present mine development and equipment and full force of men this mine is capable of producing 225 tons per day.

W. A. OTEY, Supt.

V. A. MILLER, Mine Foreman.

RALEIGH COUNTY.

BIG COAL COMPANY.

Series No. 670. *Dorothy Mine*.—This mine is located on the Coal River extension of the Cabin Creek R. R. and Coal River; is a drift opening operating the Coalburg coal on the double and triple entry system. The ventilation produced by a 10 ft. Jeffrey fan is good. All stoppings along the main entry and air way as well as the overcasts are built of stone and cement. The roof is good. Drainage good. The second opening to this mine meets all the requirements of the law. The law is fully complied with regarding rules, stretchers, safety lamps and anemometer. A map showing the workings of this mine dated May 30, 1909, has been furnished this office. With the present mine development and equipment and full force of men this mine is capable of producing 1100 tons per day. This mine was reported last year as Dorothy Mine, No. 667 of the printed report.

CHARLES E. SANDBERG, Supt.

CHAS. E. FOSTER, Mine Foreman.

BOONE COUNTY.

COAL RIVER COMPANY.

Series No. 671. *No. 1 Mine*.—This mine is located on the Little Coal River extension of the Coal River Railroad, and Spruce Fork forty-six miles from St. Albans; is a drift opening operating the Engle coal on the triple entry system. This is a new mine; began shipping coal March 10, 1909 and is only under cover a short distance and the ventilation from

natural causes is fair and a fan is on the ground and will be installed in the near future. Roof is good. Drainage good. At time of inspection this mine was only working nine men inside the miae.

J. M. MOORE, Supt.

E. J. JENKINS, Mine Foreman.

SPRUCE RIVER COAL COMPANY.

Series No. 672. *Ramage Mine.*—This mine is located on the Little Coal River extension of the Coal River R. R., and Spruce Fork; is a drift opening operating the Eagle coal and a thin seam of cannel coal. This mine consists of four openings under cover a short distance and the ventilation produced by natural causes is fair. At time of inspection of this mine six men were employed inside the mine.

J. B. RAMAGE, Supt.

SEVENTH DISTRICT.

GENERAL SUMMARY OF THE SEVENTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYEES								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Clay (prt)	2	--	25	--	5	--	30	5	--	5	35	4,464	--
Fay'te (prt)	40	4	1,015	270	51	319	1,655	232	92	324	1,979	1,046,515	108,147
Kana. (prt)	29	4	277	571	130	256	1,224	207	--	207	1,431	782,705	--
Nicholas	7	--	46	20	6	22	94	18	--	18	112	40,556	--
Totals--	78	8	1,363	861	192	597	3,003	462	92	554	3,557	1,874,240	108,147

OFFICE OF THE SEVENTH DISTRICT MINE INSPECTOR.

Charletson, W. Va., June 30th, 1909.

MR. JOHN LAING,

Chief of Department of Mines,
Charleston, West Virginia.

SIR:—In compliance with section 2 of the Mining Laws I herewith respectfully submit to you my annual report as Inspector of the Seventh Mining District of West Virginia, for the year ending June 30th, 1909.

A record has been kept of 150 inspections having been made, and 76 special or other visits made to the mines. Included in the above number of inspections are 26 Inspections of Mines made in other Districts; the detailed report of which is omitted in the following report of the Mines, the same having been made to your office by the regular monthly reports.

The most of the special visits were made for the purpose of urging that recommendations be carried out that were made at the time of previous inspections. Many visits were made to mines when inspections could not be made on account of the mines being idle, business being very poor. Few mines operated more than half time, and many operated much less.

A number of visits were made to investigate fatal accidents, and complaints that were received. Reports have been received and forwarded to your office of 31 non-fatal and 6 fatal accidents during the fiscal year.

Nine mines in the Seventh District have remained closed and have not been operated during the year.

I am unable to report much extensive improvements having been made in the condition of the mines; owing to the very slack run, and low market conditions that has prevailed during the year, it has been most difficult to get recommendations carried out. However, the work of installing fans is now in progress at several mines.

But one prosecution was had during the year, which was for violation of the oil regulations.

I regret to say that there seems to be a lack of earnestness of respect for the Mining Laws on the part of some Mine Foremen and Mine Managers, and on the part of many of the miners.

For instance:—The Miners, (for whose special benefit Mining Laws were enacted) pay little heed to the requirements of the law, and give little or no attention if the mining laws are complied with, and sometimes seem to take pleasure in violating the laws and rules of safety.

Very often in the absence of the Mine Foreman or Superintendent the complaints of the miners are profuse and often groundless; while in the presence of the Mine Foreman or Superintendent the same miners will contradict and deny conditions which are in violation of the law.

Notwithstanding that the law requires that the air-current shall be turned into the rooms few Mine Foremen will use brattice cloth or checks on the entries in order to ventilate the rooms unless urged to do so. The closing of rear break-throughs between rooms, in order to conduct the air-current through the last break-through nearest the face is seldom given attention. Many mine foremen seem to lack energy to establish discipline among the employes and give no attention to the enforcement of rules for safety.

There is much lack of interest on the part of Superintendents and General Managers to see that subordinates perform their duty in accordance with the Mining Laws. This lack of interest not only leads to serious neglect of duty, impairing the safety of the mine, but destroys economy of operation and results in serious depreciation of property.

It is to be most regreted that some Superintendents and General Managers have a very mistaken understanding as to the duties of a District Mine Inspector. In place of freely recognizing that the Mining Laws exact specific and sworn duties on the part of an Inspector and that an Inspector has no choice but to do his duty or be guilty of violation of the Mining Laws himself, some Mine Managers expect the Mine Inspector to accept their explanations as to why unfortunate and bad conditions exist, and that he refrains from urging compliance of the laws. I have found it impossible to avoid having such Mine Managers take offence when compliance of the laws were urged.

It was my unpleasant experience to have one General Manager express his disapproval in the following language: "That I did not do right by putting the conditions of his mines up to the Chief of the Department of Mines, and thereby forcing the expense of complying with the Law." The foregoing expression clearly indicates that it was expected that the

District Inspector should have made a false report to the Chief of the Department of Mines.

The greatest difficulty encountered during the year which so far I have been unable to have remedied, is the dangerous blasting of coal and "shooting off the solid". All the necessary recommendations have been made and the orders of the Chief of the Department of Mines have been fully urged without much or any progress being made to have the same adopted.

Against the use of "safety" explosives the miners complain that the cost is prohibitive and the Mine Managers claim, that they are unable to find a "safety" explosive that proves satisfactory in the blasting of their coal.

As to the efficiency of our present Mining Laws I have not material recommendations to make other than is contained in my last annual report.

I think the greatest good could be accomplished by the members of the Mining Department and all persons engaged in the mining industry getting together and seeking to have the same understanding of the laws to co-operate in the interpretation and compliance of the laws.

I would urge consideration of the number of accidents which have occurred on incline planes. I believe it would be unwise and impracticable to seek to prohibit the riding, especially on the car going up the planes. In the absence of legislation bearing direct on this matter I would urge that the Department adopt some uniform regulation as to incline planes.

In conclusion I wish to express my satisfaction at the progress made during the year, and for the courteous treatment and support received at your hands.

Very respectfully yours,

WILLIAM WARNER,

Mine Inspector of Seventh District.

CONDITION OF THE MINES IN THE SEVENTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 714 indicates the seventh district and number 14 mine.

KANAWHA COUNTY.

COALBURG-KANAWHA COAL COMPANY.

P. O., COALBURG, W. VA.

Series No. 702. *A-Mine*.—This mine is located at Coalburg on the C. & O. R. R., operating in the Coalburg seam. Is ventilated by a six-foot Thayer exhaust fan. At the time of the last inspection the ventilation was not sufficient, at the head of the entries, on account of the air-courses being closed in with falls of roof. New air-courses were being driven and

would soon be completed. It was recommended that clay be used exclusively for tamping and other necessary recommendations were made.

The mining laws in all other respects were being quite well observed. This mine was reported last year as No. 4 Mine.

B-Mine.—This mine was opened since the writing of the last annual report and operates the Belmont seam. The ventilation was dependent upon natural forces, a second opening had not yet been acquired, but connections were being driven to No. 1 opening.

The ventilation was deficient in No. 1 opening, and places were being worked in advance of the distance required by law.

It was recommended that artificial means of ventilation be adopted at once.

J. A. WILLIAMS, Supt.

JOHN M. BERGRAFF, Mine Foreman.

SOUTHWESTERN SPLINT FUEL COMPANY.

P. O., HANSFORD, W. VA.

Series No. 705. *Black Cat Mine.*—This mine is located at Crown Hill on the C. & O. R. R. is a drift and incline mine operating the Coalburg seam.

The ventilation is produced by a 7 foot Thayer fan and was found to be very good. The drainage was not good on account of having struck a body of water when making connection with the old mine.

The air current was not turned into the rooms as required by law. It was recommended that clay be used exclusively for tamping and all other necessary recommendations were made.

The mining laws were well observed in other respects.

A. P. BRADY, Supt.

WM. POFF, Mine Foreman.

WINIFREDE COAL COMPANY.

P. O., HANSFORD, W. VA.

Series No. 708. *New Coalburg Mine.*—This mine is located at Crown Hill on the C. & O. R. R., operating the Coalburg seam. It is a drift and incline mine.

The ventilation is produced by an 8-ft. fan and was found to be very good in volume on the entries, but was not turned into the rooms as required by law.

Break-throughs were neglected and not made at the required distance as required by law. It was found that some blasting off the "solid" was being practiced. More than sixty men were being employed inside the mine without a split in the air-current.

The management was urged by special letter to have an overcast completed at once, and other necessary recommendations were made, all of which the management promised to have carried out at once.

WM. CRICHTON, Supt.

C. B. STEWART, Mine Foreman.

EQUITABLE COAL COMPANY.

P. O., HANSFORD, W. VA.

Series No. 709. *No. 8 Coalburg Mine.*—Located at Crown Hill on the C. & O. R. R., operating the Coalburg seam. The ventilation is produced by an 8 ft. fan, which produced sufficient ventilation while in motion. Its operation was very irregular on account of lack of electric power.

Break-throughs were somewhat neglected.

The mining laws in other respects were better observed than at previous inspections.

This mine was inspected but once during the year on account of it having been closed down subsequently and is not yet in operation.

E. L. BRUER, Supt.

JOHN P. HUDNALL, Mine Foreman.

PAINT CREEK COLLIERIES COMPANY.

P. O., MUCKLOW, W. VA.

Series No. 710. *Scranton Mine.*—Is located at Mucklow on the Paint Creek branch of the C. & O. R. R. It is a drift incline mine, operating the Coalburg seam.

The ventilation is produced by a sixteen ft. fan, and was found to be good. It was recommended that clay be used exclusively for tamping. The mining laws in all other respects were well observed. The management was considered very efficient..

JOHN A. GREENE, Supt.

JOHN J. COX, Mine Foreman.

Series No. 711. *Paint Creek Mine.*—Is located at Mucklow on the Paint Creek branch of the C. & O. R. R. It is a drift and incline mine operating the Coalburg seam. The ventilation is produced by a 10 ft. fan, and was found to be very good. Some very dangerous shooting was being practiced. The coal being very high, after being cut with chain machines, requires an excessive amount of powder to shoot down a "breaking" shot.

It was urged that the coal be double shot for a "breaking" shot or that the regulations of the Mine Department regarding solid shooting be adopted.

The mining laws in all other respects were being well observed.

JOHN A. GREENE, Supt.

F. M. BURKE, Mine Foreman.

PAINT CREEK COLLIERIES COMPANY.

P. O., WACOMAH, W. VA.

Series No. 712. *Wacomah Mine.*—Is located at Wacomah on the Paint Creek branch of the C. & O. R. R. It is a drift and incline mine, operating the Coalburg seam.

The ventilation is produced by an 8 ft. fan, and was found to be very good. The mining laws were being well observed in all other respects.

It was recommended that clay be used exclusively for tamping.

JOHN A. GREENE, Supt.

HARRY JOHNSON, Mine Foreman.

Series No. 713. *Banner No. 1 Mine*.—It is a drift and incline mine, located at Wacomah on the Paint Creek branch of the C. & O. R. R.

The ventilation is produced by an 8 ft. fan and was found to be very good. A portion of the mine was found to be exceedingly dusty and dry. It was urged that the dust be removed at once, and that the dry portions of the mine be kept well watered.

It was recommended that the trolley wire be protected at crossings. In other respects the mining laws were being well observed.

JOHN A. GREENE, Supt.

D. F. WATERS, Mine Foreman.

Series No. 714. *Banner No. 2 Mine*.—Is a drift and incline mine, located at Wacomah on the Paint Creek branch of the C. & O. R. R. It is a drift incline mine, operating the Crown Hill or Lewiston seam of coal.

The ventilation is produced by a furnace and was found to be very deficient. The management was urged to install fan ventilation.

In all the pick mined places the blasting was done by a shot-firer after the miners have left the mine.

JOHN A. GREENE, Supt.

D. F. WATERS, Mine Foreman.

STANDARD SPLINT & GAS COAL COMPANY.

P. O., STANDARD, W. VA.

Series No. 715. *Standard Mine*.—Is a drift and incline mine. Located at Standard, on Paint Creek branch of the C. & O. R. R., operating the Eagle seam.

The ventilation is produced by a 10 ft. fan, and was found to be very good and well distributed through the rooms.

Former recommendations to double shoot the coal was being observed.

The mining laws in all other respects are being well observed, and the management is considered very efficient.

It was recommended that clay be used exclusively for tamping.

WALTER WOOD, Gen. Mgr.

ED. FOSTER, Mine Foreman.

PAINT CREEK COLLIERIES COMPANY.

P. O., DETROIT, W. VA.

Series No. 716. *Detroit Mine*.—Is a drift and incline mine. Located at Detroit on the Paint Creek branch of the C. & O. R. R., operating the Eagle seam.

The ventilation is produced by an 8 ft. exhaust fan and was found to be very good. The dust is kept well sprinkled by the use of hose attached to the air line.

The mining laws are well observed. It was recommended that clay be used exclusively for tamping.

JOHN A. GREENE, Supt.

R. D. GILL, Mine Foreman.

Series No. 717. *Morton No. 1 Mine*.—Is a drift and incline mine, located at Detroit on the Paint Creek branch of the C. & O. R. R., and has the Eagle seam.

This mine has not been in operation during the fiscal year.

JOHN A. GREENE, Supt.

Series No. 718. *Morton No. 2 Mine*.—Is a drift and incline mine, located at Detroit on Paint Creek branch of the C. & O. R. R. Is a part of Morton No. 1 Mine, and has not been in operation during the year.

JOHN A. GREENE, Supt.

PAINT CREEK COLLIERIES COMPANY.

P. O., NUCKOLLS, W. VA.

Series No. 719. *Nuckolls Mine*.—Is located at Nuckolls on Paint Creek branch of the C. & O. R. R. It is a drift and incline and has the No. 2 gas seam. This mine has not been in operation during this fiscal year.

P. O., TOMSBURG W. VA.

Series No. 720. *Grose No. 1 Mine*.—Is located at Tomsburg on Paint Creek branch of the C. & O. R. R. It is a drift incline mine, operating the Eagle seam. The ventilation is produced by an 8 ft. fan, and was found to be very good. This fan was installed since writing the last annual report.

The mining laws are quite well observed in all other respects.

FRANK KERNS, Supt.

PETER BERRY, Mine Foreman.

Series No. 721. *Grose No. 2 Mine*.—Is located at Tomsburg on Paint Creek branch of C. & O. R. R. It is a drift and incline mine, operating the No. 2 gas seam.

The furnace ventilation was found to be reasonably sufficient at the time of the last inspection, as better attention is given the furnace, break-throughs and stoppings, than was found at previous inspections. This is a very dry and dusty mine, but a water line has been constructed throughout the mine, by the use of which the dust is kept well watered. It has been urged that fan ventilation be adopted. Connections have been made with another opening, and the management has given assurances that a fan will be installed at once.

FRANK KERNS, Supt.

JOHN LAMASTERS, Mine Foreman.

Series No. 722. *Greenbrier No. 2 Mine*.—Is located between Tomsburg and Greencastle on Paint Creek branch of the C. & O. R. R. It is a drift and incline mine, operating the No. 2 gas seam.

The ventilation is produced by an 8 ft. fan and is very good.

The mining laws are very well observed in every respect.

FRANK KERNS, Supt.

ED. SIMMS, Mine Foreman.

Series No. 723. *Greenbrier No. 3 Mine.*—This is a drift and incline mine, located between Tomsburg and Greencastle, on Paint Creek branch of the C. & O. R. R., operating the Winifrede seam.

The ventilation is produced by an 8 ft. fan and was found to be good. Some solid shooting (but by a shot firer) is being done.

In all other respects the mining laws are being quite well observed.

FRANK KERNS, Supt.

LEE PATRICK, Mine Foreman.

IMPERIAL COLLIERY COMPANY.

P. O., BURNWELL, W. VA.

Series No. 724. *Imperial No. 1 Mine.*—This is a drift and incline mine, located at Burnwell on Paint Creek branch of the C. & O. R. R., operating the Eagle seam. The ventilation is produced by an 8 ft. Thayer fan, and is very good in volume on the entries, but is not turned into the rooms as the laws require.

There is some bad roof, but timbering is good. In other respects the mining laws are quite well observed.

QUINN MORTON, Gen. Mgr.

L. R. HOWELL, Mine Foreman.

Series No. 725. *Imperial No. 2 Mine.*—This is a drift and incline mine, located at Burnwell on Paint Creek branch of the C. & O. R. R.

This mine has not been in operation during this fiscal year.

QUINN MORTON, Gen. Mgr.

Series No. 726. *Imperial No. 3 Mine.*—Located at Burnwell on Paint Creek branch of the C. & O. R. R. It is a drift and incline mine, operating the Eagle seam. The ventilation is produced by an 8 ft. fan, and is very good.

The mining laws are well observed in every respect.

QUINN MORTON, Supt.

H. G. HOWELL, Mine Foreman.

CHESAPEAKE MINING COMPANY.

P. O., HANDLEY, W. VA.

Series No. 727. *No. 1 Mine.*—This is a drift and incline mine, located on Lower Creek at Handley on the C. & O. R. R., operating the Kanawha seam. The ventilation is produced by a 10 ft. Thayer fan, and was found to be good. All previous recommendations have been quite well carried out. An overcast has been constructed and the air current split. Solid stoppings have been built.

JOHN CARTER, Supt.

J. F. WHITE, Mine Foreman.

Series No. 728. *No. 2 Mine.*—This mine is located at Handley on the C. & O. R. R., is a drift and incline mine, operating the No. 2 gas seam.

The ventilation is produced by a 10 ft. fan, and was found to be good. This is a new fan and was constructed according to recommendation nearer the pit-mouth. The drainage was not good inside the pit-mouth.

Shooting from the "solid" was found to be continued notwithstanding the repeated recommendations that the regulations of the Mine Department regarding the same be adopted.

In other respects the mining laws are quite well observed.

JOHN CARTER, Supt.

GEO. WALKER, Mine Foreman.

Series No. 729. *No. 3 Mine*.—Is located at Handley on the C. & O. R. R., is a drift and incline mine operating the Coalburg seam.

This mine is ventilated by an 8 ft. fan, and was found to be very good. The mining laws are quite well observed in all other respects.

JOHN CARTER, Supt.

JOHN W. FRAZIER, Mine Foreman.

MONTGOMERY COAL COMPANY.

P. O., MONTGOMERY, W. VA.

Series No. 730. *Hickory Nut Mine*.—This is a drift and incline mine, located between Handley and Montgomery on the C. & O. R. R., operating the Lewiston seam. Only natural ventilation is obtained, and was found to be deficient. But six men are employed and the management expects to abandon the mine soon.

S. H. MONTGOMERY, General Manager. S. P. JOHNSON, Mine Foreman.

Series No. 731. *Possom Hollow Mine*.—Is a drift and incline mine, located between Handley and Montgomery on the C. & O. R. R., operating the Lewiston or Kanawha seam.

The ventilation is produced by a four foot fan located on the interior of the mine; a very good volume of air was found at certain localities, but the ventilation at and near the working places was very bad on account of gross neglect in not carrying the air-current forward, stoppings being left open and break-throughs not being made where it was necessary.

A special letter was written the Company, requesting that the necessary improvements be made at once, and any further neglect would follow with a request that the mine foreman be removed.

S. H. MONTGOMERY, Gen. Mgr.

S. P. JOHNSON, Mine Foreman.

Series No. 733. *Upper Creek Mine*.—Is a drift and incline mine. Located between Handley and Montgomery on the C. & O. R. R. It is a drift mine, operating the Lewiston or Kanawha seam. The ventilation is produced by a 10 ft. fan, and was found to be good in volume on the entries; but the air-current was not turned into the rooms as the law requires.

The mine bosses' record book was not kept at the mine, although the mine boss has been requested to do so at previous inspections.

S. H. MONTGOMERY, Gen. Mgr.

S. P. JOHNSON, Mine Foreman.

MORRIS CREEK COAL COMPANY.

P. O., DONWOOD, W. VA.

Series No. 734. *Morris Creek Mine*.—Is a drift and incline mine, lo-

cated at the head of Morris Creek, on the Morris Creek branch of the C. & O. R. R., operating the Kanawha seam.

The ventilation is produced by a 10 ft. fan. The volume of ventilation was sufficient for all purposes, but was not carried forward to the working places and break-throughs were not made as the law requires.

The mine boss had not been furnished an anemometer or a record book as the law requires. The management was requested to make the necessary improvements at once.

GEO. FRAZER, Supt.

JAS. FRAZER, Mine Foreman.

FAYETTE COUNTY.

PAINT CREEK COLLIERIES COMPANY.

P. O., MAHAN, W. VA.

Series No. 735. *Hickory Camp Mine*.—This mine is a drift and incline mine, located at Mahan, on the Paint Creek branch of the C. & O. R. R., operating the Eagle seam.

The ventilation is produced by an 8 ft. fan, which was very good and well distributed. The mining laws are well observed in every respect and the management is considered very efficient.

FRANK KERNS, Supt.

R. F. TOWNSEND, Mine Foreman.

MECCA COAL & COKE COMPANY.

P. O., MONTGOMERY, W. VA.

Series No. 736. *Mecca No. 2 Mine*.—Is located on Morris Creek branch of the C. & O. R. R. It is a drift and operates the No. 2 gas seam.

A fan on the interior of the mine and a 10 ft. fan on the outside provides the ventilation. At the time of the last inspection the volume of ventilation was found to be quite good while the inside fan was in motion but the air current was not turned into the rooms sufficiently.

The operation of the inside fan is very unreliable on account of either a lack of power or defective wiring as at each inspection the inside fan was found to stop operation at times.

This mine has but one inlet, and no out-let. The return air is obliged to return through Edgewater mines.

The top along the main haulage road in places is extremely dangerous, timbers being broken, and in bad condition.

The necessary recommendations have been made and urged at every inspection, and much improvement has been made.

It is impracticable to arrange the ventilation according to the requirements of the law until another opening is acquired, which is being contemplated.

J. H. JACKSON, Supt.

JOHN H. TASKER, Mine Foreman.

Series No. 737. *Old Mecca No. 5 Mine*.—Is a drift and incline mine located at Donwood, on the Morris Creek branch of the C. & O. R. R.; and

operates the splint No. 5 seam. This mine depends upon natural ventilation, which is not sufficient. The drainage is very bad.

The necessary recommendations have been made at the time of each inspection, and said recommendations have been urged without any success in having the same complied with.

WM. CARVER, Supt.

Series No. 737a. *New Mecca No. 5 Mine.*—Is a drift and incline mine, located at Donwood, on Morris Creek branch of the C. & O. R. R., operating the No. 5 seam.

Since the writing of the last annual report a fan has been installed for ventilation at this mine, which makes the ventilation good.

The drainage is quite bad. This mine has operated but little during the year.

WM. CARVER, Supt.

EUREKA COLLIERIES COMPANY.

P. O., DONWOOD, W. VA.

Series No. 738. *Eureka No. 13 Mine.*—Is a drift mine, located at Donwood, on the Morris Creek branch of the C. & O. R. R., operating the No. 2 gas seam of coal. The ventilation is produced by a 10 ft. fan, and is not sufficient to keep the head of the workings clear of black damp.

Former recommendations have been carried out in making a second traveling way from the interior of the mine.

The main haulage road is very dry and dusty in places.

This mine has operated very little during the year, except to make improvements and to open some new work.

JOHN NUGENT, Supt. ALFRED THOMPSON, Mine Foreman.

ECONOMY FUEL COMPANY.

P. O., MONTGOMERY, W. VA.

Series No. 738a. *Mud-Sock Mine.*—Is a slope mine, located at Montgomery, on the C. & O. R. R., operating the No. 1 or Wyant seam of coal.

This mine has not been in operation for some time, and had no artificial means of ventilation. Only a few men were engaged in preparing the mine for operation, and the atmosphere was found to be unfit for men to work. The Company was requested to furnish ventilation before continuing developments further.

The company ceased operations, and the mine has been idle ever since.

S. H. MONTGOMERY, Gen. Mgr. HERBERT SMITH, Mine Foreman.

EUREKA COLLIERIES COMPANY.

P. O., DONWOOD, W. VA.

Series No. 739. *Eureka No. 14 Mine.*—Is a drift and incline mine, locat-

ed at Donwood, on the Morris Creek branch of the C. & O. R. R., operating the No. 5 splint coal. After many urgent requests a fan has been installed for ventilation at this mine, and at the time of the last inspection the ventilation was found to be sufficient in volume but the air-current was not carried to the working places as the law requires on account of lack of stoppings.

In some places the drainage is quite bad.

This mine was operated but little during the year, and very little attention has been given to the mining laws.

JOHN NUGENT, Supt.

ALFRED THOMPSON, Mine Foreman.

W. R. JOHNSON COMPANY.

P. O., CRESCENT, W. VA.

Series No. 740. *Eagle No. 1 Mine.*—Is a drift mine, located at Crescent, on the C. & O. R. R., operating the Eagle seam.

The ventilation is produced by an 8 ft. fan, and was found to be good. The main haulage road is quite narrow, and refuge holes are needed. In other respects the mining laws are quite well observed.

THOS. BARTLAM, Supt.

JOS. BARTLAM, Mine Foreman.

Series No. 741. *No. 5 Splint Mine.*—This is a drift and incline mine, located at Crescent, on the C. & O. R. R., operating the No. 5 seam.

This mine has natural ventilation, and was found to be quite fair. The drainage was very bad on account of the surface water.

In other respects the mining laws were quite well observed.

THOS. BARTLAM, Supt.

HEZ. WEBSTER, Mine Foreman.

Series No. 741. *No. 6 Splint Mine.*—Is a drift and incline mine and is located at Crescent, on the C. & O. R. R., operating the No. 6 vein of coal.

The ventilation is produced by a force fan, and was found to be very good. The drainage was very bad on account of the surface water. In other respects the mining laws are quite well observed.

THOS. BARTLAM, Supt..

HEZ. WEBSTER, Mine Foreman.

THE CARVER BRO'S COMPANY.

P. O. EAGLE, W. VA.

Series No. 742. *Edgewater No. 2 Mine.*—Is a drift and incline mine, located at Eagle on the C. & O. R. R., operating the No. 2 gas seam.

The ventilation is produced by a 15 ft. fan located at Edgewater No. 3 Mine, after the air-current has passed through No. 3 Mine, the ventilation is insisted by a "booster" fan located inside this Mine.

The ventilation was quite fair while both fans are in operation but the "Booster" fan is very unreliable in its operation.

Much bad top exists along the haulage road, and much of the timbers

are in bad shape. Considerable improvement has been made in the conditions of this mine during the year.

ENOCH CARVER, Jr., Supt.

JOHN E. CARVER, Mine Foreman.

Series No. 743. *Edgewater No. 3 Mine*.—This is a drift and incline mine, located at Eagle on the C. & O. R. R., operating the No. 2 gas seam.

The ventilation is produced by a 15 ft. fan and is quite fair, this current of air passes to the Edgewater No. 2 mine.

Much bad top and timbers exists along the haulage road.

Considerable improvement has been made in this mine during the past year.

ENOCH CARVER, Jr., Supt.

JOHN E. CARVER, Mine Foreman.

Series No. 744. *Edgewater No. 1 Mine*.—Located at Eagle on the C. & O. R. R., is a drift mine operating the Eagle seam.

The ventilation is produced by a 15 ft. fan and was found to be quite fair. This mine has been operated but little during the year, and was inspected but once. In other respects the mining laws are quite well observed.

ENOCH CARVER, Jr., Supt.

JOHN E. CARVER, Mine Foreman.

Series No. 745. *Eagle and California Mines*.—These are drift and incline mines located at Eagle on the C. & O. R. R., operating the Eagle seam. These mines have not been in operation during the fiscal year, and no inspection was made.

ENOCH CARVER, Jr., Supt.

JOHN E. CARVER, Mine Foreman.

Series No. 746. *Edgewater No. 5 Mine*.—Is a drift and incline Mine, located at Eagle, on the C. & O. R. R., operating the No. 5 splint seam. The ventilation is dependent upon natural forces and was quite fair. A few pillars are being worked and this mine will soon be abandoned.

ENOCH CARVER, Jr., Supt.

JOHN E. CARVER, Mine Foreman.

Series No. 747. *Diamond Mine*.—Is a drift and incline Mine, located a short distance up Armstrong Creek, on the C. & O. R. R. The coal is hauled by a tram-road to the tippie located half way between Eagle and Mt. Carbon. It operates the No. 2 gas seam, and consists of two separate openings which are intended to be connected at some future time.

The No. 5 opening is ventilated by a 16 ft. fan, and the ventilation is very good. The No. 4 opening is ventilated by an 8 ft. fan located inside the mine and is very good. The air-current is split into several splits by overcasts which are built of concrete, as also the stoppings. The Mining Laws are quite well observed in all other respects.

JAMES CARVER, Supt.

E. FORBES, Mine Foreman.

ST. CLAIR COLLIERY COMPANY.

P. O., EAGLE, W. VA.

Series No. 748. *St. Clair No. 1 Mine*.—Is a drift and incline mine located at Eagle on the C. & O. R. R., operating the Eagle seam.

The ventilation is produced by an 8 ft. fan, which was found to be in quite a bad condition. This fan produced quite a good volume of air, but the air-current was not conducted to the working faces, on account of the condition of the stoppings.

No means were used to turn the air-current into the rooms as the law requires. This mine has operated very little during the year, the work being done is preliminary to operation, and but one inspection was made during the year.

L. W. ATKINSON, Supt.

H. O. YOUNG, Mine Foreman.

M-B COAL & COKE COMPANY.

P. O., KIMBERLY, W. VA.

Series No. 750. *Kimberly Mine.*—Is a drift and incline mine, located at Kimberly on the Armstrong Creek branch of the C. & O. R. R. This mine has not been operated during this fiscal year and no inspection was made. C. C. SHARPE, Supt.

Series No. 751. *Columbia No. 2 Gas Mine.*—This is a drift and incline mine, located at Columbia on the Armstrong Creek branch of the C. & O. R. R. This mine has not been operated during this fiscal year, and no inspection was made.

C. C. SHARPE, Supt.

Series No. 752. *Columbia No. 5 Mine.*—This is a drift and incline mine located at Columbia, on the Armstrong Creek branch of the C. & O. R. R., operating the No. 5 spint seam. The ventilation is produced by a furnace and at the time of the first inspection was found to be insufficient on account of the fact that at the time of the first inspection was found to be insufficient on account of the fact that no amendments made to obtain a second opening, to provide safety lamps, stretchers, and to have other requirements of the law complied with, was quite well carried out.

C. C. SHARPE, Supt.

W. W. GILL, Mine Foreman.

Series No. 753. *Elkridge No. 1 Mine.*—Is a drift and incline mine, located at Elkridge, on the Armstrong Creek branch of the C. & O. R. R., operating the Powellton seam. The ventilation is produced by a 10 ft. fan, and was found good in volume, but not turned into the rooms as required by law.

Some very careless shooting was found to be practiced; and was quite apparent that the management fails to enforce proper discipline among the employees. In other respects the Mining Laws are quite well observed. C. C. SHARPE, Supt.

L. H. HORNESBY, Mine Foreman.

Series No. 754. *Elkridge No. 2 Mine.*—Is a drift and incline mine, located above Elkridge, on the Armstrong Creek branch of the C. & O. R. R., operating the Powellton seam. The ventilation is produced by a 10 ft. fan and was found to be good. The break-throughs to some extent were

not made at the required distance. In all other respects the Mining Laws are quite well observed.

C. C. SHARPE, Supt.

LEM PAYNE, Mine Foreman.

THE MT. CARBON COMPANY LIMITED.

P. O., POWELLTON, W. VA.

Series No. 755. *Vulcan and South Mine.*—Is a drift and incline mine, located at Powellton, on the Armstrong Creek branch of the C. & O. R. R., operating the Powellton seam.

The ventilation is produced by an 8 ft. fan located inside the mine. Under favorable circumstances the ventilation is fairly sufficient, but for all purposes the ventilation should be increased.

It has been recommended and urged that a larger fan be installed, or the fan relocated nearer the workings, but as yet the management has not been induced to make the improvement.

The old pit-mouth which was dangerous on account of the top, has been abandoned, and a new haulway has been adopted and many other improvements have been made. In all other respects the Mining Laws are quite well observed.

D. T. EVANS, Supt.

J. S. WISEMAN, Mine Foreman.

GREAT KANAWHA COLLIERY COMPANY.

P. O., MT. CARBON, W. VA.

Series No. 756. *Edwards Mine.*—Is a drift and incline mine, located at Mt. Carbon, on the C. & O. R. R. There is a 10 ft. fan installed for ventilation, but the air-courses are closed in with gob and falls of roof, and the ventilation does not reach the working faces.

Break-throughs are not made between the rooms as the law requires, and no means is used to turn the air current into the rooms.

At the time of each inspection it was found that places were being worked where sufficient ventilation was not obtained and it was necessary to order men to stop work. The prosecution entered against this Company for violations of the law during the previous year and which was appealed to the Circuit court, has not been heard of since.

JOHN NUGENT, Supt.

JOHN EADES, Mine Foreman.

Series No. 757. *Brewster Mine.*—Is a drift and incline mine, located at Mt. Carbon, on the C. & O. R. R., operating the No. 2 gas seam. There is no means of ventilation provided for this mine in the winter months. Natural ventilation is barely sufficient in the summer months. The black damp from the old workshops makes artificial ventilation a necessity. The Company has been urged to furnish sufficient ventilation, but without any success.

JOHN NUGENT, Supt.

JOHN EADES, Mine Foreman.

Series No. 758. *Digby Mine*.—This is a drift and incline mine located at Mt. Carbon, on the C. & O. R. R., operating the No. 2 gas seam. The ventilation is produced by an 8 ft. fan located inside the mine and was found to be quite good at the workings at the time of the last inspection.

JOHN NUGENT, Supt.

JOHN EADES, Mine Foreman.

LOUP CREEK COLLIERY COMPANY.

PAGE, W. VA.

Series No. 759. *Ansted Mines*.—Is located at Page, on the Virginian Railway. It is a drift and incline mine and operates the Ansted seam of coal. This mine consists of several openings, Nos. 3, 4, 5, 6, 7 and 8. Since an 8 foot Sirroco fan has been installed at the No. 8 opening the ventilation is very good. At the other openings the ventilation depends upon furnaces, which are of the most rude construction of fire-baskets at the bottom of the smoke stack, which does not furnish sufficient ventilation. Some of the working places were found at the time of the last inspection to be in very bad condition as to ventilation. The management so far has failed to carry out recommendations to make the ventilation sufficient, or to adopt "safety" explosives for blasting.

J. J. MARSHALL, Supt.

D. S. DOOLEY, Mine Foreman.

Series No. 760. *Eagle Mine*.—This is a drift and incline mine, located at Page, on the Virginian Railway, and operates the Eagle seam of coal. A rude furnace consisting of a fire basket at the bottom of the smoke stack is used for ventilation, which was found to be very deficient. At the time of the last inspection no movement whatever to the air-current could be discovered.

J. J. MARSHALL, Supt.

D. S. DOOLEY, Mine Foreman.

HERBERT COLLIERIES COMPANY.

HERBERTON, W. VA.

Series No. 761. *Herbert Mine*.—This is a drift and incline mine, located at Herberton, on the Virginian Railway, operating the Eagle seam of coal, and consists of two openings. The "Sand Rock" opening depends upon natural ventilation, and is not sufficient. The other opening is ventilated by three furnaces, and is not sufficient for the development that has been created. The management of the mines has done everything possible to carry out the recommendations made but the Company has been very slow to provide fan ventilation as urged. Assurances have been received that contracts have been let to make the necessary improvements and that the work will be pushed with all possible speed. Coalite is used for blasting the coal.

JOHN CONNELL, Supt.

J. F. MAYNOR, Mine Foreman.

FT. DEFIANCE COAL & COKE COMPANY.

KANAWHA FALLS, W. VA.

Series .No 762. *Fort Defiance Mine.*—This mine is a drift and incline mine, located at Old Gauley, on the C. & O. R. R., operating the Ansted seam of coal. This mine consists of two separate openings, each being ventilated by furnace of the most rude construction. The ventilation was very deficient, and several workmen were ordered to cease work on account of the condition of the ventilation. At a subsequent visit it was found that stoppings were being prepared, and the ventilation was being improved. Fan ventilation has been recommended.

T. R. RAGLAND, Supt.

W. R. COTTLE, Mine Foreman.

LYNCHBURG COLLIERY COMPANY.

P. O., VANETTA, W. VA.

Series No. 763. *Lynchburg Mine.*—Is a drift and incline mine, located at Vanetta on the Gauley branch of the C. & O. R. R., and operates the No. 2 gas seam of coal. This mine consists of several openings, a few of which are ventilated by furnaces, and the others have no means of ventilation. In a number of working places the ventilation was found very deficient. Repeated recommendations to make the ventilation sufficient have been urged, and although the management has repeatedly promised to do so the recommendations have not been carried out in this respect. Shooting of coal from the solid is practiced generally by the miners, and the use of "safety" explosives have been urged, or that the regulations be adopted, which have been issued by the Department of Mines regarding shooting from the solid but without success.

J. C. GRISSINGER, Supt.

JOE VANETTA and GEO. VANETTA,

Mine Foremen,

No Series No. *Lynchburg No. 5 Mine.*—Is a drift and incline mine, is located at Venetta, on the Gauley branch of the C. & O. R. R. and operates the No. 5 seam of coal. At the time of inspection no means of ventilation had been adopted, and the development had progressed to the extent that the ventilation was very deficient. This mine has been recently opened and but one inspection has been made. The management promised to promptly comply with recommendations to have artificial means of ventilation installed at once.

J. C. GRISSINGER, Supt.

ED MARTIN, Mine Foreman.

GAMOCA COAL COMPANY.

P. O., GAMOCA, W. VA.

Series No. 764. *Gemoca No. 2 Gas Mine.*—This is a drift and incline mine, located at Gamoca, on the Gauley branch of the C. & O. R. R., and

operates the No. 2 gas seam of coal. This mine has not been operated since the last inspection made during the last fiscal year, at which time the ventilation was found deficient. No inspection has been made during this fiscal year.

J. M. CAMPBELL, Supt.

Series No. 765. *Gamoca No. 5 Mine*.—This is a drift and incline mine, located at Gamoca, on the Gauley river branch of the C. & O. R. R., and operates the No. 5 seam of coal. The ventilation is produced by a 10 ft. fan and is quite sufficient and fulfills the laws requirements. Shooting of the coal from the solid is practiced by the miners. "Safety" explosives have been recommended, or that the Departments regulations regarding solid shooting be observed, but the same has not been carried out.

J. M. CAMPBELL, Supt.

WALTER HIT, Mine Foreman.

DEITZ COLLIERY COMPANY.

P. O., WYNDALL, W. VA.

Series No. 766. *Deitz No. 2 Mine*.—Is a drift and incline mine, located at Wyndall, on the Gauley river branch of the C. & O. R. R., operating the No. 2 gas seam. This mine has furnace ventilation, which was found to be quite fair in volume on the entries, but the air-current was not carried forward, and not turned into the rooms as the law requires.

Shooting coal from the solid is practiced. The use of safety explosives, or that the regulations of the Mining Department regarding the same be adopted. The management has not carried out the above recommendations.

L. D. MORAN, Supt.

J. A. GREINER, Mine Foreman.

Series No. 767. *Deitz No. 5 Mine*.—Is a drift and incline mine, located at Wyndall on the Gauley river branch of the C. & O. R. R., and operates the No. 5 seam of coal. This mine has furnace ventilation, and was found to be quite sufficient at the time of the last inspection. This mine has been closed down for sometime and but one inspection has been made during the year.

L. D. MORAN, Supt.

NICHOLAS COUNTY.

BELL CREEK COAL COMPANY.

P. O., BELVA, W. VA.

Series No. 768. *Bell Creek Mine*.—Is a drift and incline mine, located at Belva, on the Gauley river branch of the C. & O. R. R., operating the Coalburg seam of coal. The ventilation is produced by a 6 ft. fan and found to be good in volume on the entries but the air-current was not

turned into the rooms as the law requires. Break-throughs were not made in accordance with law. Drainage was quite bad in places.

Only one inspection was made of this mine during the year, the mine being subsequently closed down, and is not now in operation.

CLYDE WOOD, Supt.

S. M. TAYLOR, Mine Foreman.

COLUMBUS COAL COMPANY.

P. O., VAUGHAN, W. VA.

Series Nos. 769-770. *Nos. 1 & 2 Mines.*—These mines are located at Vaughan on the Gauley river branch of the C. & O. R. R. No. 1 mine operates the No. 2 gas seam and is a drift mine. No. 2 mine operates the Lewiston seam of coal and is a drift and incline mine. These mines have been under a receivership, and have not been in operation during the year; and no inspection was made.

RAVEN COLLIERIES COMPANY.

P. O., GLENDALE, W. VA.

Series No. 771. *Raven Mine.*—This is a drift and incline mine, located at Greendale on Rock Camp Creek, on the Gauley river branch of the C. & O. R. R. And operates the Lewiston seam of coal. The ventilation was produced by an 8 ft. fan was found very good and well distributed. An effort was made by the management to have all coal that was not mined with machines shot with safety explosives but declared it to be very unsatisfactory. This mine has worked but little during the first part of the year, and only one inspection was made, subsequently the Mine has been closed down.

F. H. SNYDER, Supt.

KENTUCKY COAL AND LUMBER COMPANY.

P. O., DIXEY, W. VA.

Series Nos. 772-773-774. *Mt. Carmel Mine, Cambria Mine and National Mine.*—These are drift and incline mines, located on Open Fork of Bell Creek, on the Gauley river branch of the C. & O. R. R. These mines are under a receivership, and have not been in operation, and no inspection was made except at the Mt. Carmel Mine where a few men were employed for a short time. An 8 ft. fan is used for ventilation and the air-current was not carried forward to the working places. The drainage was very bad and no attention was given to the requirements of the mining laws. The necessary recommendations were made, and urged that the same be complied with at once. The mine was closed the next day, and is not in operation now.

L. D. BURNS, Supt.

ARMINIUS COAL COMPANY.

P. O., SCOTFORD, W. VA.

Series No. 775. *Arminius Mine*.—Is located at Scotford on Open Fork of Bell Creek, on the Gauley river branch of the C. & O. R. R. Is a drift and incline mine and operates the Coalburg seam of coal. The mine is ventilated with a furnace, and was found to be very deficient in the rooms. The mine Foreman did not have any record book, no air-measurements were made, and little or no attention was paid to the requirements of the Mining Laws. Coal was shot from the solid promiscuously. All the necessary recommendations were made, and it was urged that the regulations of the Mining Department regarding solid shooting be complied with at once. The mine was closed down subsequently, and has not been in operation since. Several visits have been paid to this mine, but only one inspection was made.

G. E. SMITH, Supt.

S. W. SMITH, Mine Foreman.

SAXMAN COAL & COKE COMPANY.

P. O., FENWOOD, W. VA.

Series No. 776. *Fenwick Mine*.—This is a drift mine, located on a branch road about 2 miles from Fenwick on the B. & O. R. R. It operates the New river seam of coal. The ventilation was produced by a furnace and was found to be quite good at the time of the inspection (in the winter months). There was no second opening, and dynamite was being used to some extent for blasting. Solid shooting was being practiced. No rules were posted, the employees were not provided with copies of Mine Laws. No stretchers or blankets were on hand, and no safety lamps. All the necessary recommendations were made, and urged to be complied with at once. This mine had never been inspected before.

JOHN MOSBY, Supt.

N. B. PLASTER, Mine Foreman.

CLAY COUNTY.

CARTER COAL COMPANY.

P. O., SCOTFORD, W. VA.

Series No. 777. *Carter Mine*.—This is a drift and incline mine located at Scotford on Open Fork of Bell Creek, on the Gauley river branch of the C. & O. R. R., operating the Coalburg seam of coal. This mine has furnace ventilation and was found quite sufficient, but the air current was not turned into the rooms as the law requires. Shooting off the solid is practiced, and very little attention is given to the requirements of the Mining laws. The adoption of safety explosives, or that the regulations of the Mining Department regarding solid shooting be adopted was urged upon the management without success.

WM. TAMPLIN, Supt.

LEONARD ARTHUR, Mine Foreman.

KENTUCKY COAL & LUMBER COMPANY.

P. O., DIXEY, W. VA.

Series No. 778. *Scott Mine*.—This is a drift mine, located near Scotford, on Open Fork of Bell Creek, on the Gauley River branch of the C. & O. R. R. This mine has not been in operation during the year and no inspection was made.

NICHOLAS COUNTY.

PARDEE & CURTIN LUMBER COMPANY.

P. O., CURTIN, W. VA.

Series No. 779. *Panther Creek Mine*.—This is a slope mine, located on a lumber road about 8 miles from Curtin, on the B. & O. R. R., which is about 10 miles from Richwood. It operates the New River seam of coal.

This mine was inspected but once during the year and, at the time of inspection, no means was being used for ventilation, a very rude furnace existed for ventilating purposes. Five men were found employed inside the mine. In or near the working places, there was no ventilation at all. Coal was being shot from the solid. An excessive quantity of powder was being used. The mine boss in charge was getting out the coal by contract, which was being used exclusively for the company's lumber mills at Curtin. There was no attention given to requirements of the Mining Laws, the men employed and the Mine Foreman seemed to be totally ignorant of the Mining Laws or rules of safety.

The necessary recommendations were made to the owners of the mine and urged that the same be complied with at once.

A. B. MAYO, Supt.

MINOR HESS, Contractor.

GREENBRIER COUNTY.

ELK LICK COAL COMPANY.

P. O., RICHWOOD, W. VA.

Series No. 780. *Lost Flat Mine*.—This is a drift mine located about 14 miles by rail on the road of the Cherry River Boom & Lumber Company from Richwood, on the B. & O. R. R. It operates the Upper Freeport seam of coal. The ventilation is produced by an 8 ft. fan, which was found to be good in volume on the entries, but the air-current was not turned into the rooms as required by law. The drainage was quite bad on account of the surface waters. Break-throughs were not made quite sufficient and shooting off the solid was practiced to some extent.

In other respects the Mining Laws were complied with.

The necessary recommendations were made, and the use of safety explosives was urged.

HARRY JONES, Supt. and Mine Foreman.

EIGHTH DISTRICT.

GENERAL SUMMARY OF THE EIGHTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYES.								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Fay'te (prt) Greenbrier..	65 1	28 1	2,634 88	717	155	1,016 7	4,522 45	551 6	150	701 6	5,223 51	2,686,819 32,296	131,914
Totals..	66	28	2,672	717	155	1,023	4,567	557	150	707	5,274	2,719,115	131,914

OFFICE OF THE EIGHTH DISTRICT MINE INSPECTOR,
Thurmond, W. Va., March 31st, 1909.

HON. JOHN LAING..

Chief of the Department of Mines,
Charleston, West Virginia.

SIR:—In compliance with the Mining Law, I submit to you my report for the Eighth District, which is for only nine months ending March, 31st, 1909, at which time I resigned from the Department of Mines.

During the nine months I made 93 regular inspections and 35 extra visits, in addition to these I made 12 visits and inspections in the 9th district, and one visit in the 7th district, making a total of 141 inspections and extra visits.

I am glad to report the conditions in general are greatly improved as to sanitation and safety.

My work in this field has been on the line of preventing any serious disasters, which have been so numerous throughout this country the last few years, and I am proud to say that with the co-operation of the management of the different companies and miners, we have averted any serious disaster, though we have had a number of fatal and non-fatal accidents occurring from falls of slate and other ways which has been given to the public.

One of the greatest dangers in this field was the shooting of coal from

the solid, and in some mines dynamite was used to shoot the coal, but at this time I am glad to say that this practice has been principally cut out, though I have had to prosecute in a number of instances to bring about these as well as other conditions, but owing to the very slack run and low selling prices for coal that has prevailed the last year, it has been almost impossible to get all conditions complied with as they should be.

In conclusion I wish to thank the operators and miners in the co-operation and courtesy shown me while attending to my official duties. I also wish to thank my superiors for their able advice and assistance rendered me during the twenty-one months I was in the Mining Department as District Inspector.

Very truly,

J. A. STRAUGHAN.

Mine Inspector, Eighth District.

CONDITION OF THE MINES IN THE EIGHTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz.: 815 indicates the eighth district and number 15 mine.

FAYETTE COUNTY.

MILL CREEK COLLIERY COMPANY.

P. O., ANSTED, W. VA.

Series No. 801. *Mill Creek Mine.*—This mine is located one-half mile east of Hawk Nest on the C. & O. branch and on the branch of Mill Creek, it is a drift mine, operating the Sewell seam, with an average thickness of three feet. Their development is on the double entry system. They have a 12 foot C. & M. fan working as an exhaust and giving good results throughout their mine. At one time this mine generated considerable explosive gas, but at the present time it does not generate as much. Open lights are used. The air punching machine is used to under cut the coal. At my last inspection I found everything in good condition and the law was being complied with.

WM. H. EVANS, Gen. Mgr.

R. H. MASSEY, Mine Foreman.

DAVE LUCAS, Mine Foreman.

GAULEY MOUNTAIN COAL COMPANY.

P. O., ANSTED, W. VA.

Series Nos. 802-803. *Nova Scotia & Turkey Creek Mines.*—These are drift mines, located at Ansted, on a branch line of the C. & O., about four

miles east of Hawks Nest. They operate on the double entry system in the No. 2 Gas seam, which averages in thickness about five feet. They have from two to four miles of haulage, principally outside, and the entries starting from this tram-road, they have three Thayer fans to ventilate their different entries which gives fairly good results. Drainage in wet weather is bad in parts of the mines, account of them drawing their pillars near the surface and causing the surface water to come into the mine. My last inspection found some dust on their A. & B. entries. The roof is a slate and in some parts of the mine there is a draw slate which gives them trouble, especially on the entries and haulages. The timbering is good throughout the mine. All other conditions were in good shape.

R. C. TAYLOR, Supt.

JAMES A. MARTIN, Mine Foreman.

CROFT & EVANS COAL COMPANY.

P. O., ANSTED, W. VA.

Series Nos. 804-805. *Pine Top and Signal Knob Mines.*—These mines are located at Ansted, on the Mill Creek branch of the C. & O. Ry., three and one-half miles from Hawks Nest. They operate the No. 2 Gas seam when in operation but have been idle over a year and no inspections were made.

W. H. EVANS, Manager.

GAYMONT COLLIERY COMPANY.

P. O., ELMO, W. VA.

Series No. 806. *Gaymont Mine.*—This mine is located on the north side of New River, one mile east of Hawks Nest, on the C. & O. Ry. It is a drift mine operating in the Sewell seam, with an average thickness of three feet. The roof is slate and is usually good. The development is on the double entry system, and the ventilation is produced by a twelve-foot Crawford-McCrimmon fan exhaustion, which gives good results. They have recently changed their haulage on the inside which is a great benefit in safety and haulage. In some parts of their advanced workings explosive gas is generated in small quantities but is taken care of. All other conditions are reasonably well taken care of.

T. C. BEURY, Gen. Mgr.

TOM TOLER, Mine Foreman.

H. H. GIVENS, Supt.

SUNBEURY COAL & COKE COMPANY.

P. O., ELMO, W. VA.

Series No. 807. *Sunny Side Mine.*—This is a drift mine located on the north side of New River, and on the main line of the C. & O. R. R. two miles east of Hawks Nest, and operating the Sewell seam which has an average thickness of three feet, the roof is of a blue slate and usually

good when not disturbed. Parts of their motor haulage is affected by the coal being drawn too close this haulage causing a squeeze to settle on this haulage which gives them trouble to keep in good safe condition. This mine is operated on the double entry system, and ventilated by a seven-foot electric fan exhaustion, which gives satisfactory results. Their drainage is not as good at all times as it should be. The main entry heading generates small quantities of explosive gas when driven but is well taken care of. All other conditions are in very good shape.

T. C. BEURY, Gen. Mgr.

RICHARD SEYMOUR, Mine Foreman.

H. H. GIVENS, Supt.

BEURY-NEW RIVER COAL COMPANY.

P. O., ELMO, W. VA.

Series No. 808. *Elmo Mine*.—This mine is located on the north side of New River and on the main line of the C. & O. Ry., three and one-half miles east of Hawks Nest. It is a drift mine operating in the Sewell seam on the double entry system, ventilated by a No. 10 foot Thayer fan located about two thousand feet inside of mine, which gives fairly good results. Their average thickness of coal is three feet. For some time they have not been developing very much territory on account of changing their plans of turning and driving rooms, to the long-wall system. On my last visit I found their motor haulage at No. 3 drift in bad condition, viz., the top in places was dangerous, the electric trolley wire was in bad shape, and there were no refuge holes. The superintendent promised me that this would be worked on at once. Their drainage was only fair in some parts of the mine. All other conditions complied with the law.

T. C. BEURY, Gen. Mgr.

J.M.SUTTLE, Mine Foreman.

H.H.GIVENS,Supt.

MICHIGAN COAL COMPANY.

Series No. 809. *Michigan Mine*.—This mine is located on the north side of New River and on the C. & O. Ry., four miles east from Hawks Nest. It is a drift mine operating the Sewell seam on the double entry system, ventilated by means of a furnace, which does not meet the requirements at all times. The management promised to install a fan early in the year, but they still have the furnace. Their average thickness of coal is about three feet. The drainage has always been good until my last inspection, when I found it not so good. The roof as a rule is of good slate. Their stoppings are fair. Other conditions comply with the law.

JAMES D. BOONE, Mgr.

P. H. OHLINGER, Mine Foreman.

MANUFACTURERS & CONSUMERS COAL COMPANY.

P. O., FAYETTE, W. VA.

Series No. 810. *Newlyn Mine*.—This is a drift mine located on the

north side of New River and on the C. & O. Ry., four and one-half miles east from Hawks Nest, operating the Sewell seam of coal with an average thickness of three feet. The mine is ventilated by a ten-foot fan with good results. The drainage is only fair on their entry haulage but they will soon greatly improve this. As a rule they have a damp mine throughout, but on my last trip I found some dry dust on their 2nd face entry. The roof as a rule is slate and good. There is explosive gas generating in small quantities in the main heading air way, also third and fourth entries, but it is well taken care of. The stoppings are only fair in parts of the mine. Other conditions comply with the law.

P. H. HENRY, Supt.

J. W. SIMMS, Mine Foreman,

FAYETTE COAL COMPANY.

P. O., FAYETTE, W. VA.

Series No. 811. *Fayette Mine.*—This is a drift mine located on the north side of New River and on the C. & O. Ry., five miles east from Hawks Nest, operating the Sewell seam with an average thickness of three feet. Ventilation is produced by means of a furnace, which does not give satisfaction at all times on account of this being an old mine and the air traveling over a large territory. The stoppings are not properly constructed and taken care of throughout the mine. The drainage as a rule is very good in parts of mine worked. The roof is of slate and good. The advanced workings generate small quantities of explosive gas. Other conditions comply with the law.

E. G. BLUME, Supt.

L. D. RHODES, Mine Foreman.

NUTTALLBURG COLLIERIES COMPANY.

P. O., NUTTALLBURG, W. VA.

Series No. 812. *Nuttallburg Mine.*—This is a drift mine located on the north side of New River and on the C. & O. Ry., seven miles east from Hawks Nets, operating the Sewell seam with an average thickness of four feet. Ventilation is produced by a sixteen foot Crawford-McCrimmon steam fan, which gives good results. The roof is slate and fairly good when properly timbered. The mine is practically damp with good drainage. The developments are on the double entry system. I found the law complied with in other respects.

LEE LONG, Mgr.

J. R. FRAISER, Mine Foreman.

HOLLIDAY COAL COMPANY.

P. O., BEAUTY, W. VA.

Series No. 813. *Keeney Mine.*—This is a drift mine located at the mouth of Keeney's Creek branch on the north side of New River on the C. & O. Ry., eight miles east of Hawks Nest. This is principally all pillar

work operating the Sewell seam averaging three and one-half feet in thickness. They have natural ventilation which is not very good. Their drainage is not good, especially in wet weather. The roof is bad. In part of the mine the timbering is only fair. On my last visit I found the men shooting their coal from the solid. The management promised me to cut it out exclusively. Other conditions complied with the law.

C. M. HOLLIDAY, Supt.

C. W. JONES, Mine Foreman.

KEENEYS CREEK COLLIERY COMPANY.

P. O., WINONA, W. VA.

Series No. 814. *Boone Mine*.—This is a drift mine operating in the Sewell seam, located three miles on the Keeneys Creek branch of the C. & O. Ry. This mine has an average of nearly four feet. The roof is slate and usually very good when well timbered. The ventilation is produced by an eight foot electric fan which gives good results as to volume when distributed to the working faces. The mine is usually damp with good drainage. Other conditions good.

LEE LONG, Mgr.

CHAS. HIGGANS, Mine Foreman.

BALLINGER COAL COMPANY.

P. O., NUTTALLBURG, W. VA..

Series No. 815. *Ballinger No. 2 Mine*.—This is a drift mine, operating the Sewell seam, located on the Keeneys Creek branch of the C. & O. Ry., three and one-half miles from the mouth. The average thickness is three and one-half feet. The roof is slate, which is not very good on account of all the work being pillars. The life of this mine is very short. The ventilation is natural and usually fairly good for the number of men that are working. The drainage is good except on the haulage. Other conditions were found to comply with the law.

GEORGE HOLLAND, Supt.

FRED OHLINGER, Mine Foreman.

Series No. 816. *Ballinger No. 1 Mine*.—This is a drift mine, operating the Sewell seam on the Keeneys Creek branch of the C. & O. Ry. four miles from the mouth. The thickness is about four feet. The roof is a slate and sand rock which is usually good. The ventilation is produced by an eight-foot fan and two furnaces, which gives good results. I found all conditions to comply with the law.

GEORGE HOLLAND, Supt.

JOHN OHLINGER, Mine Foreman.

KEENEYS CREEK COLLIERY COMPANY.

P. O., WINONA, W. VA.

Series No. 817. *Smokeless No. 1 Mine*.—This is a drift mine operating

the Sewell seam on the Keeneys Creek branch of the C. & O. Ry., four and one-half miles from the mouth. The average thickness is four feet. The roof is slate that is fairly good when taken care of. The ventilation is produced by an eight-foot electric fan, which gives good results. All of the development is on the double entry system. The greatest trouble in this mine was the drainage but this is greatly improved and in a short time they will have it in good condition. This mine is in very nice condition and complies with the law.

LEE LONG, Mgr.

TOM SEACRIST, Mine Foreman.

ROTHWELL COAL COMPANY.

P. O., DUBREE, W. VA.

Series No. 818. *Dubree No. 1 Mine.*—This is a drift mine, operating the Sewell seam on the Keeneys Creek branch of the C. & O. Ry., five miles from the mouth. The average thickness is about four feet. The roof is rock which is good. The development is on the double entry system. They are at present preparing to operate part of the mine on the Longwall system. The ventilation is produced by a 12-foot electric fan, which gives good results. On my last inspection of the mine I found the drainage on the first left entry bad, and the dust in the other parts of the mine needed dampening very bad. Other conditions comply reasonably well with the law.

H. H. ROTHWELL, Supt.

M. H. BLYTHE, Mine Foreman.

Series No. 819. *Dubree No. 2 Mine.*—This mine has been idle two or three years. I have made no inspections.

H. H. ROTHWELL, Supt.

BLUME COAL & COKE COMPANY.

P. O., LOOKOUT, W. VA.

Series No. 820. *Blume Mine.*—This is a drift mine, operating the Sewell seam on the Keeneys Creek branch of the C. & O. Ry., six and one-half miles from the mouth. The average thickness is about four feet. The roof is slate which is good in some parts of the mine. Other parts it is slippery and needs careful timbering. The mine is on the double entry system. Ventilation is produced by a ten-foot steam fan with good results. Since they have overhauled their air ways and split their air, their drainage is usually good and well looked after. All other conditions comply reasonably well with the law.

D. W. BOONE, Supt.

J. A. McCALLISTER, Mine Foreman.

LOOKOUT COAL & COKE COMPANY.

P. O., LOOKOUT, W. VA.

Series No. 821. *Lookout Mine.*—This is a drift mine, operating the

Sewell seam on the Keeneys Creek branch of the C. & O. Ry., seven miles from the mouth and at the end of the present road. They have an average thickness of nearly four feet. The roof is slate, fairly good when taken care of. The ventilation is produced by a 10-foot fan and a furnace, which gives fairly good results when properly distributed. On one side of the mine they have been into a rock fault for some time. Drainage as a rule is good; all other conditions comply reasonably well with the law.

D. W. BOONE, Supt.

J. A. McCALLISTER, and

J. W. LUSHER, Mine Foremen.

MOSLEY & WALKER COAL COMPANY.

P. O., CLIFF TOP, W. VA.

Series Nos. 822-3-4. *Cliff Top Nos. 1, 2 and 3 Mines.*—These are drift mines, located at Cliff Top on a narrow gauge road, nine miles from Sewell Station. They are operating the Sewell seam, which average close to three feet. All three mines have a slate roof which is usually good when taken care of.

No. 1 Mine is an old mine, retreating with their pillars. It will only last a short time. The ventilation is natural and usually good. Drainage is good.

No. 2 Mine is their new mine. It is operated on the double entry system, ventilated by an eight-foot fan with good results. Drainage is good.

No. 3 Mine is small. They only work three or four men to get coal for their haulage. I have never inspected this mine.

L. WALKER, Supt.

R. L. HERNDEN, Mine Foreman.

PENNSYLVANIA & NEW RIVER COAL COMPANY.

P. O., PENNBROOK, W. VA.

Series No. 825. *Kohinoor Mine.*—This is a drift mine, located on the north side of New River on the main line of the C. & O. Ry., three miles east of Sewell Station. They are operating the Fire Creek seam, which averages about three feet. The roof is slate, which is usually very good. Ventilation is produced by a sixteen foot fan with good results. This mine has not run for several months, but when they were running everything was in reasonably good condition to comply with the law.

SMEDLEY BUTLER, Supt.

ED. LITTLEJOHN, Mine Foreman.

FIRE CREEK COAL & COKE COMPANY.

P. O., FIRE CREEK, W. VA.

Series No. 827. *Fire Creek Mine.*—This is a drift mine, operating the Fire Creek seam. It is located on the north side of New River and on the main line of the C. & O. Ry., three and one-half miles east from Sewell

Station, and has an average thickness of three feet in their new mine. It is worked on the single and double entry system. Ventilation is produced by a furnace which is giving very good results. They expect to install their fan in a short time. I found all conditions in reasonably good shape to comply with the law.

H. L. ATKINSON, Supt.

ZEB ARRINGTON, Mine Foreman.

BEURY BROS. COAL & COKE COMPANY.

P. O., BEURY, W. VA.

Series No. 830. *Echo Mine*.—This is a drift mine, operating the Fire Creek seam. It is located on the north side of New River and on the main line of the C. & O. Ry., three miles west from Thurmond, and has an average thickness of four feet. The roof is slate, which is usually good when taken care of. This mine is worked on the double entry system, and ventilated with two fans with fairly good results in the old mine and good results in the new mine. The drainage in the old mine is good, but only fair in the new one. Other conditions comply reasonably well with the law.

H. B. BEURY, Supt.

PETER WOLF, Mine Foreman.

BIG BEND COAL COMPANY.

P. O., DIMMOCK, W. VA.

Series No. 831. *Big Bend Mine*.—This mine is located one mile west from Thurmond. It is a drift operating the Fire Creek seam, which averages near three feet. The roof is slate and sand Rock, which is good when timbered. Ventilation is produced by an eight foot fan which gives good results. The mine is worked on the single and double entry system. Drainage is usually good except on one haulage. Other conditions comply reasonably well with the law.

JOHN DEMPSEY, Supt.

O. C. WISEMAN, Mine Foreman.

STONE CLIFF COAL & COKE COMPANY.

P. O., STONE CLIFF, W. VA.

Series No. 832. *Stone Cliff Mine*.—This mine is located one and one-half miles east from Thurmond, on the main line of the C. & O. Ry. It is a drift mine, operating in the Fire Creek seam on the double and single entry system. The average thickness is four feet. The roof is slate and rock, which is usually good when timbered. The ventilation is produced by an eight-foot electric fan which gives good results since they split the air. The drainage is very good and well looked after. Other conditions comply reasonably well with the law.

JOHN DEMPSEY, Supt.

G. D. McDANIEL, Mine Foreman.

BEECHWOOD COAL & COKE COMPANY.

P. O., CLAREMONT, W. VA.

Series Nos. 833 & 834. *Beechwood Nos. 1 & 2 Mines.*—These mines are located three miles east from Thurmond, on the main line of the C. & O. Ry. They are drift mines, operating the Fire Creek seam on the double entry system. The thickness is from four to four and one-half feet. The roof is of rock-slate formation, which is good. The ventilation is produced by one 12-foot and one 6-foot steam fan, which are giving good results. The drainage in No. 1 is good and fair; in No. 2 mine other conditions comply reasonably well with the law.

C. C. BEURY, Mgr.

R. B. HANNA and J. H. NEAL, Mine Foremen.

J. E. KITCHEN, Supt.

ALASKA COAL & COKE COMPANY.

P. O., CLAREMONT, W. VA.

Series No. 835. *Alaska Mine.*—This is a drift mine located three and one-half miles east from Thurmond, on the main line of the C. & O. Ry. They are operating the Fire Creek seam of coal on the double entry system. The thickness is four feet. The roof is slate and is good. The ventilation is produced by an eight-foot steam fan, which gives fairly good results when kept in operation. The drainage is good in parts of mine that are worked. Other conditions comply reasonably well with the law.

GEORGE LAWTON, Supt.

S. M. PETERS, Mine Foreman.

EPHRAIM CREEK COAL & COKE COMPANY.

P. O., THAYER, W. VA.

Series No. 836. *Buffalo Mine.*—This is a drift mine located five miles east from Thurmond, on the main line of the C. & O. Ry. They are operating the Fire Creek seam of coal on the double entry system. The thickness is about four feet. The roof is slate and good when taken care of. The ventilation is produced by three seven-foot electric fans which give good results when distributed to the working faces. All other conditions comply reasonably well with the law.

GEORGE FRAZER, Supt. JOHN FILBIN & CHAS. FINK, Mine Foremen.

RIDGEVIEW COAL & COKE COMPANY.

P. O., THAYER, W. VA.

Series No. 837. *Ridgeview Mine.*—This is a drift mine located five miles east from Thurmond, on the main line of the C. & O. Ry. They are operating the Fire Creek seam of coal on the single and double entry system. The thickness is about three feet. The roof is slate and rock, which

is usually good when timbered. The ventilation is produced by an eight-foot steam fan which gives good results. The drainage in parts of the mine is only fair. Other conditions comply reasonably well with the law.

JOHN DEMPSEY, Supt.

JOHN HARRIS, Mine Foreman.

EXPORT COAL COMPANY.

P. O., ROBINS, W. VA.

Series No. 838. *Export Mine*.—This is a drift mine located two and one-half miles from Quinnimont, on the Laurel Creek branch of the C. & O. Ry. They are operating in the Fire Creek seam which averages three feet. It has a slate roof which is good when timbered. I made no inspections of this mine during the year on account of not being able to find them running.

E. E. HUDDLESTON, Supt.

LAUREL CREEK COAL COMPANY.

P. O., LAUREL CREEK, W. VA.

Series No. 839. *Laurel Creek Mine*.—This is a drift mine located four miles from Quinnimont, on the Laurel Creek branch of the C. & O. Ry., operating in the Fire Creek seam of coal which averages about four feet in height. It has a slate roof which is good when timbered. The ventilation is produced by an eight foot electric fan which gives good results. The drainage at one time was bad, but now it is in good condition. They have recently installed electric haulage, which gives good satisfaction. All other conditions comply reasonably well with the law.

GEO. LAWTON, Mgr.

WM. WHITLOCK, Mine Foreman.

J. W. LAWTON, Supt.

GLENDALE COLLIERY COMPANY.

P. O., LAWTON, W. VA.

Series No. 840. *Glendale Mine*.—This is a drift mine located four and one-half miles from Quinnimont, and on the Laurel Creek branch of the C. & O. Ry., operating in the Fire Creek seam of coal, which averages about four feet in height. The roof is slate and needs very close timbering on account of a small surface over the coal. The ventilation is produced by natural conditions, which is only fair at times, but the management promised they would get a fan whenever they got away from the present work. The drainage is not good at all times. Other conditions comply reasonably well with the law.

C. B. HELWG, Supt.

J. B. LESEURE, Mine Foreman.

QUINNIMONT COAL COMPANY.

P. O., QUINNIMONT, W. VA..

Series Nos. 841-842. *Big Q. & Lick Branch Mines.*—These mines are located five miles from Quinnimont, and on the Laurel Creek branch of the C. & O. Ry. They are drift mines, operating in the Fire Creek seam of coal which averages about four feet in height. The roof is slate which is usually good when timbered. The ventilation is produced by an eight-foot electric fan, which is giving good results. The drainage is usually good. They have recently installed electric haulage in the mine, which is giving good results. All other conditions comply reasonably well with the law.

J. C. GALLANDETT, Mgr.
D. H. PHELPS, Supt.

ED. GORDON, Mine Foreman.

GREENWOOD COAL COMPANY.

P. O., LAWTON, W. VA.

Series No. 843. *Greenwood Mine.*—This is a drift mine located five miles from Quinnimont, and on the Laurel Creek branch of the C. & O. Ry., operating in the Fire Creek seam of coal, which averages about four feet in height. The roof is slate which is good when properly timbered. The ventilation is produced by one steam 10-foot fan and two four-foot electric fans which are giving good results. The drainage is usually good. This mine has recently placed electric haulage in, which is doing nicely. All other conditions comply reasonably well with the law.

WM. A. BROWN, Mgr. H. C. PETERS, and J. H. WOODS, Mine Foremen.

HEMLOCK-HOLLOW COAL COMPANY.

P. O., LAWTON, W. VA.

Series No. 844. *Hemlock Hollow Mine.*—This is a drift mine, located five and one-half miles from Quinnimont, on the Laurel Creek branch of the C. & O. Ry., operating the Fire Creek seam of coal which averages about four feet in height. The roof is slate and is good. The ventilation is produced by a 12-foot steam fan, which gives good results when distributed to the working faces. Their drainage is good. This mine is in very nice shape. Everything complies with the law.

WM. A. BROWN, Mgr.
J. A. BROWN, Supt.

D. S. BROWN, Mine Foreman.

NEW RIVER & POCAHONTAS CONSOLIDATED COAL COMPANY.

P. O., GENTRY, W. VA.

Series Nos. 845-846-847. *Layland Mines Nos. 1, 2 & 3.*—These mines

are located seven miles from Quinnimont, on the Laurel Creek branch of the C. & O. Ry. They are drift mines operating in the Fire Creek seam of coal which averages about four feet in height. The roof is slate and is good. The development is on the double entry system, ventilated with two 12-foot Capell electric fans with good results. All conditions in and about these mines comply with the law.

H. M. BERTOLOT, Supt.

LOUIS NAHODIL and R. Y. MUIR,

Mine Foremen.

NEW RIVER VALLEY COAL COMPANY.

P. O., HAWKS NEST, W. VA.

Series No. 848. *Bachman Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., one-half mile east from Hawks Nest. They are operating the Sewell seam which averages nearly three feet in height. The roof is slate and is good when timbered. The ventilation is produced by two furnaces which gives good results when looked after properly. Their No. 2 drift is very dry, which compels them to use water to keep the mine damp. The No. 1 drift has only one available opening at this time but are working for the second opening. All other conditions comply reasonably well with the law.

JAMES D. BOONE, Mgr.

FRANK HESS, Mine Foreman.

DANIEL BOONE, Supt.

MARRS BRANCH COAL COMPANY.

P. O., WHITNEY, W. VA.

Series No. 849. *Marrs Branch Mine*.—This mine is located on the south side of New River on the C. & O. Ry., three miles east from Hawks Nest. It is a drift mine operating in the Sewell seam which averages nearly three feet in height. The roof is slate and is usually good when properly timbered. The development is on the double entry system, ventilated by a furnace which gives fair results if looked after as it should be. The drainage is usually very good. This mine has only one available opening at this time. Other conditions comply reasonably well with the law.

JAMES D. BOONE, Mgr.

B. F. DORSEY, Mine Foreman.

LOW MOOR IRON COMPANY OF VIRGINIA.

P. O., KAY MOOR, W. VA.

Series No. 850. *Kay Moor No. 2 Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., five miles east from Hawks Nest, operating the Sewell seam of coal which averages nearly three feet. Roof is good when timbered properly. The development is on the double entry system, ventilated by three furnaces, which give good results when

looked after properly. The drainage is fairly good. They were at this time installing an electric haulage and machines to cut the coal, also a fan. I found all other conditions complying reasonably well with the law.

WM. BARRACK, Supt.

JOHN CLARK, Mine Foreman.

Series No. 851. *Kay Moor, No. 1 Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., seven miles east from Hawks Nest, operating in the Sewell seam which averages three and one-half feet in height. The roof is slate and is usually good if timbered. The development is on the double entry system, ventilated by a twenty-foot fan, which gives fairly good results. The drainage is fair. Other conditions comply reasonably well with the law.

WM. BARRACK, Supt.

J. SHORTHOUSE, Mine Foreman.

BROWN COAL COMPANY.

P. O., NUTTALLBURG, W. VA.

Series No. 852. *Brown Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., eight miles east from Hawks Nest, operating the Sewell seam of coal which averages four feet. The roof is slate and is good when properly timbered. The development is on the double entry system, ventilated by a six foot electric fan, and with the improvements that have been done of late, gives good results. The drainage is greatly improved from what it used to be. Other conditions comply reasonably well with the law.

JOHN BOONE, Supt.

A. R. JONES, Mine Foreman.

ELVERTON COAL & COKE COMPANY.

P. O., CAPERTON, W. VA.

Series No. 853. *Elverton Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., two miles west from Sewell Station, operating the Sewell seam which averages nearly four feet. The roof is slate and is good when properly timbered. The development is on the double entry system, ventilated by a 10-foot electric fan, which gives fairly good results. The drainage is usually good. All other conditions comply reasonably well with the law.

H. A. MOSLEY, Supt.

WALTER WILLIAMS, Mine Foreman.

SOUTH SIDE COAL COMPANY.

CAPERTON, W. VA.

Series No. 854. *South Side Mine*.—This is a drift mine located on the south side of New River, on the C. & O. R. R., one mile west from Sewell

station, operating in the Sewell seam of coal which averages about four feet. The roof is slate and is good when properly timbered. The development is on the double entry system, ventilated by a six foot electric fan located inside of the mine which gives very good results. This mine accumulates a large amount of water but is drained very well. All other conditions comply reasonably well with the law.

G. H. CAPERTON, Mgr.

ROBT. BOYD, Mine Foreman.

NEW RIVER COLLIERIES COMPANY.

SEWELL, W. VA.

Series No. 855. *Cunard Mine*.—This is a drift mine operating the Sewell seam. Have made no inspection on account of its having been idle for about two years.

JAMES MARTIN, Mgr.

FINLOW, W. VA.

Series No. 856. *Brooklyn Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., five miles west from Thurmond, operating in the Sewell seam which averages four feet in height. The roof is slate and is fairly good when properly timbered. The development is on the double entry system and ventilated by a seven foot fan which gives good results. All conditions meet the requirements of law reasonably well.

JAMES MARTIN, Mgr.

ED JONES, Mine Foreman.

RUSH RUN, W. VA.

Series No. 857. *Red Ash Mine*.—This is a drift mine located on the south side of New River, on the C. & O. Ry., three miles west of Thurmond, operating in the Fire creek seam which averages from four to six feet. The roof is slate and is good when timbered properly. The developments are on the double entry system. Ventilation is produced by a 12 foot electric fan which gives fairly good results. This mine has been worked by safety lamps for some time on account of the explosive gas generating. Recently a joint inspection was made and finding no gas the safety lamps were advised to be withdrawn. At present the dry coal dust is the greatest danger, as this coal is very dry and requires a large amount of water to dampen the dust. Other conditions comply reasonably well with the law.

JAMES MARTIN, Mgr.

ROBT. WALLACE, Mine Foreman.

Series No. 858. *Rush Run Mine*.—This is a drift mine located on the south side of New River on the C. & O. Ry., two miles west of Thurmond, operating in the Fire Creek seam which averages from four to six feet in height. The roof is slate and is good when properly timbered. The development is on the double entry system. Ventilation is produced

by a 12 foot electric fan to ventilate the old mine, and a seven foot electric fan to ventilate the new one, with good results when distributed to the working faces properly. The old mine has been worked with the locked safety lamps on account of explosive gas. Recently a joint inspection was made, finding no gas, the safety lamps were withdrawn. The coal is very dry in both mines making a great deal of dust which necessitates a large amount of water to keep it down. Other conditions comply reasonably well with the law.
JAMES MARTIN, Mgr.

THURMOND COAL COMPANY.

CONCHO, W. VA.

Series No. 859. *Thurmond No. 1 Mine.*—This is a drift mine located on the south side of New River, on the C. & O. Ry., one mile west from Thurmond. They are operating in the Sewell seam of coal which averages four feet. The roof is slate and needs careful timbering. The development is on the double entry system and ventilated by a ten foot electric fan which gives good results with the improvements that have been made. The drainage is good except on the haulage in some parts of the mine, which will soon be improved. All other conditions comply reasonably well with the law.

GILBERT SMITH, Supt.

W. E. MORTON, Mine Foreman.

Series No. 860. *Thurmond No. 2 Mine.*—This is a drift mine located on the south side of New River on the C. & O. Ry., one mile west from Thurmond, operating the Sewell seam of coal which averages from four to six feet in height with a slate and rock roof which is very good when timbered properly, the development is on the double entry system, ventilated by a twelve foot electric fan with good results. The mine is dry usually which requires water to dampen the dust. Other conditions comply reasonably well with the law.

GILBERT SMITH, Supt.

T. J. BURK, Mine Foreman.

NEW RIVER & POCAHONTAS CONSOLIDATED COAL COMPANY.

MINDEN, W. VA.

Series No. 861. *Minden No. 1 Mine.*—This is a drift mine located two miles south from Thurmond, on the Arbuckle branch of the C. & O. Ry., operating the Fire Creek seam which averages about five feet in height and ventilated by a 12 foot electric fan with good results. The roof is slate and is usually good. This mine is all pillar work and will soon be finished. All conditions comply reasonably well with the law.

ROBERT WATSON, Supt.

D. F. TITLOW, Mine Foreman.

Series No. 862. *Minden No. 2 Mine.*—This is a drift mine located three miles south from Thurmond, on the Arbuckle branch of the C. & O. Ry.,

operating in the Sewell seam which averages from four to five feet with a slate roof and needs careful timbering. The drainage is fairly good and well looked after. All other conditions meet the requirements of law reasonably well.

ROBERT WATSON, Supt.

H. T. WOOD, Mine Foreman.

Series No. 863. *No. 3 Mine.*—This is a drift mine located four miles south from Thurmond, on the Arbuckle branch of the C. & O. Ry., operating in the Sewell seam which averages from four to five feet in height. The roof is slate and rock and needs careful timbering. The development is on the double and triple entry system, ventilated by two ten foot electric fans with good results. All conditions comply reasonably well with the law.

ROBERT WATSON, Supt.

J. T. SHERER, Mine Foreman.

Series No. 864. *Minden No. 4 Mine.*—This is a drift mine located four miles south of Thurmond, on the Arbuckle branch of the C. & O. Ry., operating in the Sewell seam which averages four and one-half feet in height. The roof is slate and rock roof and is good when timbered properly. The development is on the double and triple entry system, ventilated by a fifteen foot electric fan which gives good results. This mine generates small quantities of explosive gas, but is well taken care of. The drainage is good. Some parts are dry and have to be watered. All other conditions comply reasonably well with the law.

ROBERT WATSON, Supt.

T. S. ASKEY, Mine Foreman.

Series No. 865. *Minden No. 5 Mine.*—This is a drift mine located three miles south of Thurmond, on the Arbuckle branch of the C. & O. Ry., operating in the Sewell seam which averages from four to five feet in height. The roof is slate and rock and is good when properly timbered. The development is on the double and triple entry system, ventilated by a fifteen foot electric fan with good results. This mine also generates small quantities of explosive gas in the advanced workings, but it is well taken care of. The drainage is good, except in some parts of the mine where the dry coal dust has to be watered. All other conditions comply with the law reasonably well.

ROBERT WATSON, Supt.

JOHN LINDLEY, Mine Foreman.

NINTH DISTRICT.

GENERAL SUMMARY OF THE NINTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYEES.								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals.	Sum Totals	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Fay'te (prt)	38 21	1,718	289	135	770	2,912	458	103	561	3,473	2,421,977	88,700	
RT'gh (prt)	48 17	1,386	213	48	620	2,267	356	---	356	2,623	1,631,500	---	
Totals..	86 39	3,104	502	183	1,390	5,179	814	103	917	6,096	4,053,477	88,700	

Beckley, W. Va., April 30, 1909.

HON. JOHN LAING, ESQ.,

Chief Mine Inspector.

Charleston, W. Va.

DEAR SIR:—

Having the pleasure of submitting to you my annual report of the 9th District, for my period in office which expires May 1st, 1909, I find that mining developments in this field are becoming more scientific, I am pleased to say that there is becoming a relative realization, by all concerned, of the necessity to provide means of eliminating the dangers by such provisions as will make mining in this field as safe as in any other, as the best ventilating fans are in use and many more being installed at the new and old mining plants providing good ventilation, which is absolutely necessary to successfully meet the present situations. While this is good, the necessary and important requirement are its conduct and maintenance, which I am sorry to say has been badly neglected in the past years; to maintain the necessary volume of air required for the health and safety of the employes, as well as properly substantial doors and stoppings are being built between the intake and outlet air course, and must be maintained with air courses of large area at all times kept clear of obstruction, these conditions depend on humane agency from whose carelessness and neglect the many casualties and loss of life occur, and will be so until the gravity of the neglect of ventilation regardless of good and powerful ventilators, until those conditions be put in practice at the opening of each and every mine.

Moreover, I wish to give congratulations to our Government Experiment Station at Pittsburg, Pa., which is adding great knowledge to our mining world and proving to many people the dangers of the dust in our high volatile coal that exists in this state.

My stay in this department has been a short but rather pleasant one, and I wish to give thanks to the Operators in my district for the courtesy shown me while in office, and abiding with a strict compliance of the law. I also wish to thank the Mining Department in general for their aid and courtesy shown me.

For my last ten months in office I have made 95 inspections and 80 special visits, during which time I have been called out of my field on joint inspections several times.

Again I want to thank you cordially for your counsel and courtesy as well as the employers and employes of my district for the consideration and treatment I have received. Believing that a mutual enforcement and observance of our mining laws will give to all beneficial and happy conditions and results, I am, sincerely yours,

JOHN PHILLIPS,
Mine Inspector, 9th District.

CONDITION OF THE MINES IN THE NINTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz; 916 indicates the Ninth District and number 16 mine.

FAYETTE COUNTY.

THE DUNGLLEN COAL COMPANY.

Series No. 901. *Dunglen No. 1 Mine.*—This mine is located one mile south of Thurmond, on the C. & O. railroad on Dunloop Creek. It is a drift opening, operating the Sewell seam on the double entry system, the ventilation is produced by a 6 foot Stine fan, which gives moderate results. The roof is of a soft nature and requires very close posting, but it is taken care of very well.

THOMAS BOYD, Supt. and Mine Foreman.

Series No. 902. *Dunglen No. 2 Mine.*—This mine is located one mile south of Thurmond on the C. & O. R. R., on Dunloop Creek. It is a series of drift openings, operating the Fire Creek seam on the double entry system, being ventilated as yet by a furnace, as the seam is low the mine is only in about 300 feet. They have promised to install a fan at this mine. The roof is a soft draw slate and needs very close attention, which is being looked after.

THOMAS BOYD, Supt. and Mine Foreman.

NEWLYN COAL COMPANY.

Series No. 903. *Newlyn Mine*.—This mine is located one mile south of Thurmond, on the C. & O. R. R., on Dunloop Creek. It is a series of drift openings, operating in the Fire Creek seam on the double entry system. As yet very little work has been done, as faults and rolls prevent the development of this mine, the ventilation is being produced by a furnace, which gives fair results.

JAS. BOYD, Supt.

EDW. THOMAS, Mine Foreman.

MEADOW FORK COAL COMPANY.

Series No. 904. *Meadow Fork Mine*.—This is a drift mine located three miles south of Thurmond, on the C. & O. R. R., on the Dunloop Creek. It is a series of drift openings, operating in the Sewell seam, and worked on the double entry system, as this is a very small acreage it is ventilated by a large furnace which gives very good results, having four openings around the hill which gives free vent to the furnace. This vein is carrying with it a draw slate, which is of a brittle nature, and needs very close attention.

JAS. THOMAS, Supt.

HOGUE MEADOWS, Mine Foreman.

HARVEY COAL & COKE COMPANY.

Series No. 905 & 906. *Harvey Nos. 1 & 2 Mines*.—These are drift mines, located on the C. & O. R. R., on Big Loup Creek, operating in the Sewell seam, which ranges from 4 to 5 ft. in thickness. In some sections of these mines the roof is slate and in other sections it is sand rock. The ventilation is produced by a 10 ft. Stine fan at each mine which gives very good results. The drainage in these mines are very good. The general conditions and all haulways are fair. The timbering is well taken care of, a separate traveling way being installed for the men to travel to and from their work. Blankets and stretchers are kept on hand.

FRED DIXON, Supt.

JOHN DUNN, Mine Foreman.

LAURA MINING COMPANY.

Series No. 907. *Laura Mine*.—This mine is located about six miles south of Thurmond on the Loup Creek branch of the C. & O. R. R. It is a drift opening, operating in the Sewell seam on the double entry system. The ventilation is produced by a 10 foot Stine fan, which gives very good results. This mine is damp throughout. The roof is variable, but is well timbered. Refuge holes along the main entry. Mining Laws are obeyed.

THOS. NICHOLS, Supt.

THOS. MORGAN, Mine Foreman.

PRUDENCE COAL COMPANY.

Series No. 908. *Prudence Mine*.—This is a drift mine located on the

Big Loup Creek branch of the C. & O. R. R. It is located four miles south of Thurmond, operations are in the Sewell seam. The roof in some sections is slate and of a very brittle nature. The mine is operated on the double entry system. Ventilation being produced by a 10 foot Stine fan, which gives fair results. Drainage is also fair, the mining laws and rules are being observed at this mine.

JOS. SCHWEITZER, Supt.

JAS. ROBINSON, Mine Foreman.

Series No. 909. *Lyman Mine*.—This mine is a drift, located on the Big Loup Creek, on the C. & O. R. R., five miles south of Thurmond, operating the Sewell seam on the double entry system. Ventilation is being produced by a 10 foot Stine fan of a high speed type, which gives very good results. This mine carries with it a very dangerous draw slate, which needs close attention. Rules are posted. Blankets and stretchers are kept on hand.

JOS. SCHWEITZER, Supt.

W. S. WILLIAMSON, Mine Foreman.

Series No. 910. *Jones Mine*.—This mine is located about five miles south of Thurmond, on the Loup Creek branch of the C. & O. R. R. This mine is opened up on the double entry system, operating the Sewell seam. Ventilation is produced by an 8 foot Thayer fan which gives good results. This mine carries with it a fair roof. Rules are posted and blankets and stretchers are kept on hand.

JOS. SCHWEITZER, Supt.

JAS. ROBINSON, Mine Foreman.

THE STAR COAL & COKE COMPANY.

Series No. 911. *Star Mine*.—This is a drift mine located six miles south of Thurmond, on the Loup Creek branch of the C. & O. R. R. It is operated on the double entry system and is in the Sewell seam. It ranges in thickness from 4 to 5 feet. Ventilation is being produced by a 12x5 foot Capell fan, which gives very good results. Ventilating arrangements including doors, stoppings and overcasts are well installed. This mine generates considerable gas and needs very close attention, but on my different inspections I found this mine to be in very good condition. Rules are posted and a strict observance of the law is complied with. Shot-firers are employed at this mine.

DAVID EVENDALL, Supt.

P. B. EVENDALL, Mine Foreman

HENRY RICE and RICHD. OWENS, Fire Bosses

COLLINS COLLIERY COMPANY.

Series No. 912. *Collins No. 1 Mine*.—This is a drift mine located on the Loup Creek branch of the C. & O. R. R., located about eight miles south of Thurmond. It is operated on the double entry system in the Sewell seam which ranges in thickness from 4 to 5 feet. Its roof is of a different nature, in some sections it is of sand rock and in others slate. Ventilation is being produced by an 18 foot Crawford and McCrimmon fan, which give very good results. Drainage in this mine is fair. The

general safety of haulways are in good condition. Rules are posted. Blankets and stretchers are kept on hand.

FRED DIXON, Supt.

J. W. WEDGEWOOD, Mine Foreman.

Series No. 913. *Collins No. 2 Mine*.—This is a drift mine located on the Loup Creek branch of the C. & O. R. R., about eight miles south of Thurmond. It is opened up on the double entry system, and operates in the Sewell seam. This mine carries with it a draw slate which needs very close attention. The ventilation is produced by an 18 foot Crawford and McCrimmon fan, which gives fair results. This is an old mine, its principal part at present is robbing. The drainage is moderate. Rules are posted. Blankets and stretchers are kept on hand.

FRED DIXON, Supt.

JOHN HAVORD, Mine Foreman

WHITE OAK FUEL COMPANY.

Series No. 914. *Wingrove Mine*.—This is a shaft mine and is located one mile west of Glen Jean on the White Oak Branch of the C. & O. R. R., operating in the Sewell seam. Ventilation is being produced by a 20 foot Capell fan, which gives desired results throughout the mine. There is some gas found at the face of advanced workings, but a strict watch is kept on same. The roof in this mine varies but is well attended to, it is equipped with an air shaft with all safety appliances attached, a speaking tube is in this shaft and hoisting machinery and cages are well equipped. Rules are posted. Blankets and stretchers are kept on hand.

CHRIS MacTAGGART, Supt.

JOHN HOLMES, Mine Foreman.

GEORGE SCOTT, Fire Boss.

Series No. 915. *Scarbro Mine*.—This is a shaft mine located two miles west of Glen Jean on the White Oak Branch of the C. & O. R. R., operating in the Sewell seam on the double entry and triple entry system. Ventilation is produced by an 18x7 foot Capell fan, which gives very good results throughout the mine. Gas has been found in this mine but is well taken care of by the large volume of air distributed to the face of the workings and by a very competent Mine Foreman. This mine is damp throughout and carries with it a draw slate, which must be looked after very carefully. This mine is also equipped with an air shaft and all safety appliances for the retreat of men. Rules are posted. Blankets and stretchers are kept on hand.

A. D. CALLIHAN, Supt.

RALPH BRABON, Mine Foreman.

FRED DIXON, Sr., Fire Boss.

Series No. 916. *Whipple Mine*.—This is a shaft mine located four miles north-west of Glen Jean on the Dunloop Creek Branch of the C. & O. R. R., and on the White Oak branch of the same R. R., operating in the Sewell seam on the double entry system, ventilation being produced by a 16x5 foot Capell fan, which gives good results. This mine gives off considerable gas. The largest quantities found in so called rock entry

but is well taken care of. It has a small portion of draw slate which must be closely watched. There are some safety lamps used in this mine and is worked exclusively on Safety Powder, it is equipped with an air shaft and stairway. Rules are posted.

WM. FARREL, Supt.

SAM'L HALE, Mine Foreman.

S. S. COOPER, Fire Boss.

WHITE OAK FUEL COMPANY.

Series No. 917. *Carlisle Mine*.—This mine is a shaft mine located four miles west of Glen Jean on the C. & O. R. R. on the White Oak Branch. Operating in the Sewell seam in the double and triple entry system. Ventilation being produced by an 18x7 inch Capell fan, which gives very good results. Some gas has been found in the advanced workings of this mine, but is well taken care of. The roof as a rule is generally good. Drainage fair. This mine is worked exclusively by Safety Powder, some safety lamps are being used in this mine. Second opening and equipments meets lawful requirements. Rules posted.

EDW. COCKBURN, Supt.

ISAAC PELTER, Mine Foreman.

WM. DIXON, Fire Boss.

Series No. 918. *Oakwood Mine*.—This is a shaft mine located about four miles west of Glen Jean on the C. & O. R. R. on the White Oak Branch. It is worked on the double and triple entry system, operating in the Sewell seam. Ventilation is produced by an 18x7 foot Capell fan which gives satisfactory results. There is some gas found in this mine in the advanced workings. It is generally damp. The roof is of a hard nature. The second opening to this mine being Carlisle Shaft and meets all requirements of the law. It is worked exclusively by safety powder. Rules are posted.

EDW. COCKBURN, Supt.

WM. A. JONES, Mine Foreman.

T. H. HERRIN, Fire Boss.

STUART COLLIERY COMPANY.

Series No. 919. *Parral Mine*.—This mine is a shaft mine and is located eight miles west of Glen Jean on the Loup Creek branch of the C. & O. R. R. on the company's line from Scarbro, operating the Sewell seam on triple entry system. Ventilation being produced by an 18x7 foot Capell fan, which gives very good results throughout the mine. This mine gives off a considerable amount of gas and safety lamps are used exclusively in parts. The gas and dangers which prevail in this mine are well taken care of by a competent Mine Foreman. It is partly damp. The roof is of a weak nature. This mine is worked exclusively on safety powder and shot firers. All precautions are being taken. This mine is equipped with a safety shaft and all safety appliances. Rules are posted. Close observance of the law is complied with.

EVAN COCKBURN, Supt.

JOHN POWELL, Mine Foreman.

TEDDY MILLS, Fire Boss.

Series No. 920. *Beech Creek Mine*.—The Beech Creek Mine is located one-half mile north of the Parral Shaft, development being in the Little Eagle seam, which ranges in thickness to about 3 feet. It carries with it a sand rock roof and is located near the top of the mountain. Ventilation is produced by two small furnaces. There are only about 12 or 15 men working in this mine. It is damp throughout. No gas whatever. is worked with safety powder. Rules posted.

EVAN COCKBURN, Supt.

E. T. WATSON, Mine Foreman.

Series No. 921. *Stuart Mine*.—This is a shaft mine and is located nine miles west of Glen Jean on the White Oak Branch of the C. & O. R. R. It is opened up on the triple entry system, operating in the Sewell seam, Ventilation is produced by an 18x7 foot Capell fan, which gives excellent results throughout the mine. This mine generates considerable gas in the advanced workings, but is well taken care of under the usual conditions. Safety lamps are being used in parts. The roof is of a very free and weak character making it extremely difficult to keep the air courses clear. Extra precaution has been put into effect which, under existing conditions are necessary, this mine is comparatively dry throughout. It is worked exclusively on safety powder and shot-firers. The second opening meets full requirements of the law, being properly equipped for safe retreat of the men.

W. J. HEATHERMAN, Supt.

ALFD. THOMPSON, Mine Foreman.

THOS. FRICKLETON, Fire Boss.

NICHOL COLLIERY COMPANY.

Series No. 922, *Nichol Mine*.—This mine is located at Glen Jean on the Loup Creek Branch of the C. & O. R. R. It is a slope mine opened up on the double entry system in the Sewell seam. Ventilation is produced by a 12x5 foot Capell fan, which gives very good results throughout the mine. Gas has been found in the advanced workings of this mine, safety lamps being used in parts, with the modern appliances of cement stoppings and cement overcasts and a competent Mine Foreman. It is well taken care of. This mine is damp throughout. Rules are posted.

LEMUEL SMITH, Supt.

WM. H. WATKEYS, Mine Foreman.

THOMAS MASON, Fire Boss.

NEW RIVER COLLIERIES COMPANY.

Series Nos. 923, 924 and 925. *Sun Nos. 1, 2 & 3 Mines*.—These mines are located nine miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. It is opened up by a shaft and two slopes. These mines are being operated in the double and triple entry system in the Sewell seam, being all connected and ventilated by two fans one 18 foot Capell and one 12x5 foot Capell fans, with the aid of cement over-casts, stoppings and good doors, with good results. This mine generates considerable gas, but is well taken care of by the proper distribution of ventilation. They are partly dry, but are being cared for by a watering system, which

is doing very well. The coal ranges in thickness from $4\frac{1}{2}$ to 5 feet. Refuge holes along motor roads are provided. Drainage is fair. Shaft is equipped with safety appliances and separate traveling, as in the slope. This mine is worked with safety powder.

JAS. MARTIN, Supt.

ZACHARY EVANS, Mine Foreman.

WM. HERRON, JAS. McMILLAN and WM. COPE, Fire Bosses.

McKELL COAL & COKE COMPANY.

Series No. 926. *Derryhale Mine*.—This mine is located about nine miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. This is a drift mine opened up on the double entry system in the Sewell seam. Ventilation is produced by an 8 foot Stine fan, which gives very good results. The roof in this mine is chiefly slate of a weak nature, and needs close attention. This mine is damp throughout. It generates a small amount of gas in the advanced workings but is well taken care of. Rules are posted. Blankets and stretchers are kept on hand.

THOS. NICHOL, Supt.

THOS. LEWIS, Mine Foreman.

JOHN SWEENEY, Fire Boss.

DUNNLOOP COAL & COKE COMPANY.

Series Nos. 927 & 929. *Dunnloop No. 1 Mine*.—These mines are located about eight miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. They are a series of drift openings opened up on the Sewell seam on the double entry system. The work at present is principally pillar work. The ventilation is produced from Collins No. 1 and air is taken in from one to three and delivered to Collins No. 1 fan. They are very wet mines carrying with it a draw slate which needs close attention. Rules are posted.

CHRIS MacTAGGART, Supt.

GEO. ERIE, Mine Foreman.

Series No. 928. *Dunnloop No. 2 Mine*.—This mine is located nine miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. on Dunnloop Creek. It is a drift mine opened up on the double entry system, operating in the Sewell seam. Ventilation is produced by a 7 foot Stine fan, which gives fair results. This mine is very damp. The roof is of a brittle nature having no regularity about it, requires close attention. It is difficult to retain the main air ways. There is no gas in this mine. Rules are posted. This mine is equipped with refuge holes on haulways, good cement stoppings and overcasts.

CHRIS MacTAGGART, Supt.

ODIE WILLIAMS, Mine Foreman.

TURKEY KNOB COAL COMPANY.

Series No. 930. *Turkey Knob Mine*.—This mine is located about nine miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. on Dunnloop Creek. It is a drift opening, operating the Sewell seam on the double entry system. Ventilation being produced by a 10 foot Thayer

fan and gives fair results throughout the mine. The roof is a very brittle carrying with it a heavy draw slate. It is a very wet mine and very difficult to handle. No gas, whatever, but is worked by safety powder. Rules are posted.

L. L. BLENKINSOPP, Supt.

M. A. JONES, Mine Foreman.

MACDONALD COLLIERY COMPANY.

Series No. 931. *Macdonald Mine*.—This mine is located ten miles south of Thurmond on the Loup Creek Branch of the C. & O. R. R. It is a drift opening operating in the Sewell seam on the double entry system. The ventilation is produced by a 7 foot Stine fan placed on the outside of the 17th entry. As this is an old mine and in its previous record being poorly handled, its principal workings at present consists of pillar robbing. The roof varies. It is a damp mine throughout.

WALTER THURMOND, Supt.

JAS. BUCKLEY, Mine Foreman.

SUGAR CREEK COAL & COKE COMPANY.

Series No. 932. *Sugar Creek 1 & 2 Mines*.—These mines are located one mile west of Macdonald on the Loup Creek Branch of the C. & O. R. R., on Sugar Creek. These are two slope openings, operating the Sewell seam on the double entry system. The ventilation is produced by two fan, one eight and one six-foot Stine fan, which gives fair results throughout the mines. These mines are very wet. The roof in the No. 1 mine is of a fair nature, but in No. 2 is of a weaker nature and requires closer attention. The coal from both mines goes over the one tipple. These mines are worked exclusively by safety powder. No gas whatever. Rules are posted.

WM. FARREL, Supt.

F. L. RAMEY, Mine Foreman.

MT. HOPE COAL & COKE COMPANY.

Series No. 933. *Baby Mine*.—This mine is located one and one-half miles south of Macdonald on the Loup Creek branch of the C. & O. R. R. on Dunloup Creek. It is a drift opening, operating in the Sewell seam on the double entry system. The operations at this mine have been suspended for some time awaiting a side track.

A. P. BAILEY, Supt.

McKELL COAL & COKE COMPANY.

Series No. 934. *Kilsyth Mine*.—This mine is located two miles south of Macdonald on the Loup Creek branch of the C. & O. R. R., It is a drift opening operating in the Sewell seam on the triple entry system. The ventilation is produced by a 16x5 ft. Capell fan, with cement stoppings and over-casts in mine and a competent Mine Foreman. It is well ventilated. This mine is damp throughout. No gas exists. This is a very large mine and is worked exclusively by safety powder and shot, inspectors being under strict discipline.

THOS. NICHOL, Gen. Mgr.

THOS. LEWIS, Mine Foreman.

R. A. McCLURE, Supt.

PRICE HILL FUEL COMPANY.

Series No. 935. *Sherwood Mine*.—This mine is located two miles south of Maconald on the Loup Creek Branch of the C. & O. R. R. It is a shaft opening operating in the Sewell seam on the triple entry system. Its thickness varies from 4 to 4 1-2 feet. The ventilation is produced by an 18x7 Capell fan. The air shaft is equipped with modern appliances. There was some gas found in the advanced workings, but is well taken care of. The mine is damp throughout. Rules are posted.

EDW. PINKNEY, Supt.

WM. BRABBIN, Mine Foreman.

HENRY NAYLOR, Fire Boss.

RALEIGH COUNTY.

PRICE HILL FUEL COMPANY.

Series No. 936. *Price Hill Mine*.—This is a shaft mine located two and one-half miles south of Macdonald on the Loup Creek branch of the C. & O. R. R., on Dunloop Creek. It is operating in the Sewell seam on the triple entry system. The coal averages in thickness about 4 feet with a fairly good slate roof. The ventilation is produced by an 18x7 ft. Capell fan, which gives good results throughout the mine. This mine generates some gas in the advanced workings, but is well taken care of by good ventilation. Rules are posted. This mine is worked exclusively by safety powder.

EDW. PINKNEY, Supt.

ADAM LINDLEY, Mine Foreman.

ANTHONY CHAMBERS, Fire Boss.

McKELL COAL & COKE COMPANY.

Series Nos. 937 & 938. *Oswald & Sidney Mines*.—These are drift mines located on Big Loup Creek on C. & O. R. R. via McKell R. R., and are located fourteen miles south of Thurmond. Both of those mines are in the Sewell seam on the double entry system. The thickness of the coal ranges from 4 to 4 1-2 feet. In some sections the roof is very brittle and in others it is very strong. This seam is very rolling. Both mines are ventilated separately by two fans 10x4½ ft, Capell type, which gives good results. The coal from both drifts go over the one tippie that spans the valley. There is no gas whatever. They are very damp throughout.

I. M. IMBODEN, Supt.

LAWN HUNLEY, Mine Foreman.

Series No. 939. *Graham Mines*.—This is a drift mine located on Loup Creek branch of the C. & O. R. R. via McKell R. R. It is located about fourteen miles south of Thurmond. This is a drift mine, opened up on the double entry system and is operating in the Sewell seam. The ventilation is produced by a 9x5 ft. Capell fan, which gives good results throughout the mine. The thickness of this seam ranges from 4 to 5 feet carrying with it a very treacherous draw slate which needs careful attention. This

mine is damp throughout. Rules are posted. Close observance of the law is complied with.

J. F. HINDSON, Supt.

LEMUEL M. SMITH, Mine Foreman.

McKELL COAL & COKE COMPANY.

Series No. 940. *Tamroy Mine.*—This is a drift mine located about fifteen miles south of Thurmond, on the Loup Creek branch of the C. & O. R. R. via McKell R. R. This mine is opened up on the four entry system, operating in the Sewell seam and gives great promise as a coal producer. The seam ranges in thickness from 4 to 5 feet. They have just installed a 16x5 ft. Capell fan and built their sub-station. This is a comparatively damp mine. Rules are posted. As yet I have found no gas.

J. F. HINDSON, Supt.

LEMUEL SMITH, Sr., Mine Foreman.

WRIGHT COAL & COKE COMPANY.

Series Nos. 942 & 943. *Wright Nos. 1 & 2 Mines.*—These are drift mines located on the Piney Branch of the C. & O. R. R. three miles west of Prince. These operations are in the Fire Creek seam. The developments are principally conducted on the double entry system. The ventilation in No. 1 is produced by a 7 foot disc fan, and in No. 2 by an 8 foot Thayer fan, which gives very fair results. Coal from both mines go over the one tipple. Both mines are very wet but they have no gas to contend with. The work in the No. 1 mine is mostly pillar robbing. The roof is a fairly good one. The drainage is only moderate.

CHAS. C. GRESSANG, Supt.

J. A. DAVIS, Mine Foreman.

Series No. 944. *Wright No. 3 Mine.*—This is a drift mine located four miles west of Prince. It is opened up on the double entry system, operating in the Fire Creek seam. It is located on the Piney Branch of the C. & O. R. R. This mine is ventilated by an 8 foot Thayer fan, which gives fairly good results throughout the mine. The mine is very damp. The seam at this mine is of a very irregular character very much intersected with rolls, and ranging in thickness from 2 feet 6 inches to 4 feet. Rules are posted. Stretchers and blankets on hand.

CHAS. C. GRESSANG, Supt.

ARNOLD FORD, Mine Foreman.

STONEWALL COAL & COKE COMPANY.

Series Nos. 945 & 946. *Stonewall Nos. 3 & 4 Mines.*—These are drift mines located on the Piney Branch of the C. & O. R. R. about four miles west of Prince. The operations are in the Fire Creek and Sewell seam. The development of the Stonewall No. 4 mine is in the Fire Creek Seam which will average about 3 feet in thickness, and on account of the thin conditions of the seam very little work has been done during the year. The development of the No. 3 mine is in the Sewell seam, which averages from 4 to 6 feet in thickness. Both of these mines are opened up on the

double entry system. No. 4 mine is ventilated by furnace. No. 3 by a home made 7 foot fan, which gives very good results. These mines are very damp and there is no gas given off. These mines are worked with safety powder. Rules are posted.

FRANK M. LEE, Supt.

J. A. BRUBAKER, Mine Foreman.

NEW RIVER COLLIERIES COMPANY.

Series Nos. 948 & 949. *Lanark Nos. 3 & 4 Mines.*—These are drift mines located on the Piney Branch of the C. & O. R. R. five miles west of Prince. The No. 3 mine is opened up in the Fire-Creek Seam on the double entry system. Its work at present is pillar robibng, and will be finished in about six months, and the ventilation is produced by a furnace which gives very good results. It carries with it a fair roof. The mine is very damp. The No. 4 mine is operated in the Sewell seam on the double entry system. The ventilation is produced by an 8 foot Stine fan, and with their stone and cement stoppings it makes the ventilation very fair throughout the mines. These mines are worked on safety powder exclusively.

JAS. MARTIN, Supt.

CHAS. LAWSON, Mine Foreman.

PINEY MINING COMPANY.

Series No. 950 & 952. *Stanaford Nos. 2 & 4 Mines.*—These are drift mines located on the Piney Branch of the C. & O. R. R., about nine miles from Prince. The developments are in the Fire Creek seam, but are very irregular in thickness, ranging from 4 to 6 feet. The work is conducted principally on the double entry system. The ventilation produced for these two mines is produced by an 8 foot Stine fan, placed on the so-called No. 5 drift, which gives a separate split for both mines and is giving fairly good results. The roof is of a hard nature and haulways is in good condition. These mines generate some gas in the advanced workings. They are partly dry but not dusty. A fire boss is being employed. These mines are worked exclusively by safety powder. Rules are posted. Blankets and stretchers are kept on hand.

ARTHUR MITCHELL, Supt.

JOHN E. PHILLIPS, Mine Foreman.

EDW. NELSON, Fire Boss.

Series No. 951. *Stanaford No. 3 Mine.*—This mine is located on the Piney Branch of the C. & O. R. R. about ten miles west of Prince. The mine is opened up on the double entry system and is operating in the Sewell seam. Ventilation is produced by a 7 foot Stine fan which gives very good results throughout the mine. This mine carries with it a very brittle roof. No gas whatever. The mine is damp throughout. Rules are posted. Worked exclusively by safety powder. Refuge holes on haulways are provided.

ARTHUR MITCHELL, Supt.

MORRIS McGUIRE, Mine Foreman.

Series Nos. 953 & 954. *Stanaford Nos. 5 & 6 Mines.*—These are drift

mines located on the Piney Branch of the C. & O. R. R. about nine miles west of Prince. The No. 5 mine has been abandoned and connected to No. 2 Mine. The No. 6 mine operates on the double entry system in the Fire Creek seam. The coal ranges in thickness from 5 to 7 feet. This is a dry mine, and gives off considerable gas. The ventilation is produced by an 8 foot Thayer fan, which does not give sufficient ventilation, but the company has arranged to install a 6 foot Serocco high speed fan which will produce sufficient ventilation. At present they are not working the amount of men that they might, due to the inefficiency of their mechanical power. Safety lamps are partly used in this mine. A watering system is also installed.

ARTHUR MITCHELL, Supt.

F. R. CLARK, Mine Foreman.
JOHN HARE, Fire Boss.

RALEIGH COAL & COKE COMPANY.

Series Nos. 955, 956 & 958. *Raleigh Nos. 1, 2 & 4 Mines.*—These are drift mines located on the Piney Branch of the C. & O. R. R. about fourteen miles west of Prince. The operations are in the Fire Clay seam and are conducted on the double entry system. At each of these mines there is a 5 ft. high speed fan, operated by electric power, which gives good results. The drainage is fair. The roof is good. Refuge holes are provided and haulways are in good shape throughout these mines. Rules are posted.

JAS. WHITE, Supt.

TERRANCE CONWAY, Mine Foreman.

Series No. 957. *Raleigh No. 3 Mine.*—This is a drift mine located on the Piney Branch of the C. & O. R. R. about fourteen miles west of Prince. It is operated on the double entry system in the Fire Creek seam. This is a large mine. The ventilation is produced by three 5 foot high speed fans, which are 3 separate openings to the outside No. 1, 5 & 10, where fans are stationed. The roof is of a hard slate. The coal varies in thickness from 4 to 5 feet intersected with rolls. This mine is a damp mine throughout. No gas given off. Drainage is fair. Rules are posted. Refuge holes on main haulway are provided.

JAS. WHITE, Supt.

JOHN McARTHUR, Mine Foreman.

Series No. 959. *Raleigh No. 5 Mine.*—This mine is a drift located about fourteen miles west of Prince on the Piney Branch of the C. & O. R. R. The workings are in the Sewell seam, operated on the double entry system. The ventilation is produced by a 5 foot high speed fan, which gives very good results throughout the mine. This mine is damp throughout. The seam is very irregular. The top is very brittle and full of kettle bottoms, and needs careful attention, which at present is being taken. This mine is worked exclusively by safety powder. No gas given off. Rules are posted.

JAS. WHITE, Supt.

THOS. ROBINSON, Mine Foreman.

Series No. 960. *Raleigh No. 6 Mine.*—This mine is a drift located about fourteen miles west of Prince on the Piney branch of the C. & O.

R. R. on Little Beaver. The operations are in the Fire Creek seam which averages about 4 feet in thickness. It operates on the 4 and triple entry system. This is a large mine and is equipped with modern appliances. All coal is handled by haulage motors not a mule in the mine. The ventilation is produced by two high speed 6 foot fans and they are now preparing to install two Seroccos, which with its improved cement overcasts and stoppings, and large airways will make it one of the modern mines of the day. It also has a separate traveling way for the men to go to and from their work. It is worked with safety powder. In the near future this mine will produce 3,000 tons per day. Rules are posted.

ERNEST CHILSON, Genl. Mgr.

JAS. WHITE, Supt.

EDW. ZWILLING, Mine Foreman.

BLUE JAY LUMBER COMPANY.

Series No. 961. *Blue Jay Mine*.—This is a drift mine located on the Piney Branch of the C. & O. R. R. about thirteen miles west of Prince. It is opened up on the double entry system in the Fire Creek seam. This is a new mine. The coal will average about 5 feet in thickness. This mine is up-to-date. Its ventilation is produced by an 8x4 foot Robinson fan which gives good results throughout the mine. Stone stoppings and well put up doors afford good ventilation to the workings faces. This mine is damp throughout. Rules are posted.

P. C. LYNCH, Supt.

PATRICK McQUADE, Mine Foreman.

SULLIVAN COAL & COKE COMPANY.

Series No. 962, 963, 964 & 965. *Sullivan Nos. 1, 2, 3 & 4 Mines*.—These are drift mines located on the mouth of Take in creek on the Piney Branch of the C. & O. R. R. about twenty-four miles west of Prince. These mines are opened up on the double entry system on the north and the south side of the hill. All the coal from the 10 pair of entries will be dumped over one large tipple that spans the valley. The ventilation at present is produced by two 8 foot Thayer fans, but they are making arrangements for two more 6 foot Serrocco fans. The coal will average in thickness about 5 feet. No gas found. These mines are damp throughout. They are partly using safety powder.

DR. J. A. WOOD, Supt.

WM. HOPE, Mine Foreman.

CRANBERRY FUEL COMPANY.

Series Nos. 966 & 967. *Sprague and Skelton Mines*.—These mines are slope mines located on the P. R. & P. C. R. R., about three miles west of Beckley. The Skelton mine has been abandoned for an indefinite period. The Sprague mine is opened up on the double entry system in the Beckley seam which will average about 4 feet in thickness. This is a very wet mine and full of rolls. It carries with it a very brittle draw slate, and needs very careful attention. The ventilation is produced by a 10 foot

Disc fan which gives fair results. This mine has a fire clay bottom, which makes the haulways very disagreeable. Rules are posted.

JOHN WILSON, Supt.

WEYMAN HURT, Mine Foreman.

CRANBERRY FUEL COMPANY.

Series No. 968. *Cranberry Mine*.—This is a shaft mine located on the P. R. & P. C. R. R. and is about five miles west of Beckley and about twenty miles west of Prince. It is operated on the triple entry system in the Sewell seam. It will average in thickness from 4 to 5 feet. The roof is of a very brittle nature. The ventilation being produced by an 18x7 foot Capell fan, which gives very satisfactory results. Traces of gas have been found in the north advanced workings, but it has been very well cared for. This mine is damp throughout. Its second opening meets lawful requirements as Prosperity Shaft is its second opening. Rules are posted. Blankets and stretchers are kept on hand.

JAS. CLARK, Supt.

JOHN T. DAVIS, Mine Foreman.

RICHARD ROBERTS, Fire Boss.

Series No. 969. *Prosperity Mine*.—This is a shaft mine located on the P. R. & P. C. R. R. about six miles west of Beckley and about twenty-one miles west of Prince. It is operated on the triple entry system in the Sewell seam and carries with it a very good slate roof. Traces of gas have been found in the main southwest workings, but it has been well taken care of. The ventilation is being produced at this mine by an 18x7 foot Capell fan, which gives very satisfactory results. The second opening to this mine is the Cranberry Shaft. Those two mines are worked exclusively by safety powder. Rules are posted.

JAS. CLARK, Supt.

JAS. NESBIT, Mine Foreman.

WM. HASLEM, Fire Boss.

MABSCOTT COAL & COKE COMPANY.

Series No. 970. *Mabscott Mine*.—This is a drift mine located on the Piney Branch of the C. & O. R. R. about sixteen miles west of Prince. The developments are in the Sewell seam, and is worked on the double entry system. The seam ranges from 4 to 5 feet in thickness. Ventilation is produced by an 8 foot Stine fan, which gives only fair results. They are now opening up on the 6th right entry to install a fan there, which will greatly help the ventilation. Rules are posted. The roof is fairly good. The general condition of this mine is moderate. The mine is wet throughout.

W. J. ELGIN, Supt.

W. D. LEE, Mine Foreman.

HOME COAL COMPANY.

Series No. 971.—*Abandoned*.

BECKLEY COAL & COKE COMPANY.

Series No. 972. *Beckley Mine*.—This is a slope mine located on the

Piney Branch of the C. & O. R. R. about seventeen miles west of Prince. The developments are in the Beckley seam and are conducted on the triple entry system. The ventilation is produced by a 12x7 foot Robinson fan, and with the present arrangements including doors and stoppings and overcasts the ventilation is fair throughout the mine. The drainage which is accomplished by steam pumps together with the general conditions of the entire mine, are good. There is traces of gas found in the south workings but are well cared for. At points the roof is very brittle. Rules are posted.

W. J. ELGIN, Supt.

RICHARD COBB, Mine Foreman.

WM. WATTIS, Fire Boss.

NEW RIVER COLLIERIES COMPANY.

Series Nos. 973 & 974. *Eccles Nos. 11 & 12 Mines.*—These are shaft mines located on the Piney Branch of the C. & O. R. R. about twenty-two miles west of Prince, at the Junction of the Virginian R. R. No. 11 has been sunk, but as yet has not been developed. No. 12 has been opened up on the triple entry system, and is operating in the Beckley seam. The Sewell seam has been opened up in the air shaft on the triple entry system. This mine generates considerable gas and is worked exclusively by locked safety lamps. Safety powder is also used and all holes fired by battery. The ventilation is produced by an 18x7 ft. Capell fan, which gives very good results throughout the mine. A watering system has been installed. The second opening meets the lawful requirements. The air shaft is equipped with modern appliances. Rules are posted. Blankets and stretchers are kept on hand.

J. S. CHEYNEY, Supt.

L. BLENKINSOPP, Mine Foreman.

E. P. FLEMING, Fire Boss,

SLAB FORK COAL COMPANY.

Series Nos. 975 & 976. *Slab Fork Nos. 1 & 2 Mines.*—These are a series of drift mines located about fifty miles west of the Deepwater Junction of the C. & O. R. R., they are located on the Virginian R. R. They are operating in the Beckley seam on the double entry system. Nos. 3, 4 & 5 give off considerable amount of gas, but is well taken care of. A watering system has been installed, two large tanks on the hill which is self supporting by a pump from the river. The ventilation being produced by three Thayer high speed fans, which gives very good results. The seams vary from 4 to 5 feet. Rules are posted.

GASTON CAPERTON, Supt.

WM. HURT,

THOS. WATTIS, Fire Boss.

JOHN PRICE,

T. WARRICK,

Mine Foremen.

E. E. WHITE COAL COMPANY.

Series Nos. 977 & 978. *Nos. 1 & 2 Mines.*—These are shaft mines located

on the Shockley Branch of the Virginian R. R. one and one-half miles west of the Surveyor. They are opened up on the four entry system in the Beckley seam. They are new mines with a very promising outlook of being a large coal producer. These mines generate gas in their west workings, but are being very carefully looked after. The mines are damp throughout. The ventilation is being produced at present with a two inch steam jet in the up cast from their large steam pump, they are installing a 16x5 foot Robinson fan, and when installed, with their large air ways and substantial stoppings, will give great results to the mine. The second opening meets lawful requirements. This mine is equipped with modern appliances. Rules are posted. Blankets and stretchers are kept on hand.

E. E. WHITE, Supt.

FRANK McHUGH, Mine Foreman.

W. F. JENNINGS, Fire Boss.

Beckley, W. Va., June 28th, 1909.

HON. JOHN LAING,

Chief of Department of Mines,
Charleston, W. Va.

DEAR SIR:—

In compliance with the requirements of the Mine Law, I herewith submit my first annual report of the Ninth District, ending June 30th, 1909, of which I was assigned Raleigh County and upper part of Fayette County, in which district I made 31 regular inspections and 3 extra visits.

Operators of the mines in this district are endeavoring to comply with the law in every respect as defined. Many improvements are being made, notwithstanding, the present depression in having the mines idle one-half of the time. Recommendations that I have put before them, have had the same attended to without delay; have paid special attention to ventilation and timbering of working places, also roadways leading thereto.

In conclusion must say that I have received great courtesy from one and all. Thanking you for the advice and counsel you have given me, I am,

Respectfully yours.

LANCE B. HOLLIDAY,

Mine Inspector Ninth District.

MINE FOREMAN.

DUTIES OF MINE FOREMAN.

He shall see that there is an adequate amount of ventilation produced to ventilate all the working places in the mine he is in charge of, and that the same is in a sanitary condition and in compliance with the Mining Laws.

He shall see that all working places requiring timber that suitable props and cap pieces are provided and sent to each and every working place using timber, he shall see that where props are required that the

miner or miners working are and do secure their working plans in a proper manner.

For violating the above he shall upon conviction be fined not less than twenty (\$20.00) dollars, nor more than fifty (\$50.00) dollars for each and every offense.

He shall see that break-throughs are cut in all advancing headings or rooms every 80 feet, and when break-through is being cut the advancing heading or room shall be stopped until break-through is cut.

And in a mine generating gas he shall see that all headings and rooms being driven that the ventilation is carried by means of brattice cloth or boards, and that there shall be no obstruction placed behind the said brattice whatever, in the way of slate, timber or tools.

He shall see that the miners do not grip their holes on the solid, nor over-charge their holes; and that the same be tamped with clay to the face of bore hole. Any neglect on his part in violation of the aforesaid provisions he shall upon conviction be fined not less than fifty (\$50.00) dollars.

Where Fire Bosses are employed, they should, on arriving at the mine, whether it be drift-slope or shaft mine generating gas, before entering the mine shall examine the Fire Boss or Bosses' Report or Reports of Inspection and initial same, and hold consultation with said Fire Boss or Bosses and render them every assistance necessary if called for. For violating this section, he shall upon conviction be fined not less than fifty (\$50.00) dollars.

He shall see that the Mining Laws are carried out to the best of his knowledge and ability at all times. These rules are and do implicate the Assistant or Assistants if there be any.

HOISTING ENGINES.

I recommend that a record book be provided for the use of Machinist, who shall record in said book in writing the condition of the various parts of machinery connected with Hoisting Engine. The examination or inspection to be made daily before the time of hoisting coal or lowering of men commences. This record must be signed by the person making such examination, and shall at all times be kept in Hoisting Engine room or Engine house, as the same may be termed. And also a notice shall be placed outside of said engine house forbidding any person or persons from entering therein, only those authorized to do so.

SHAFT EXAMINATION.

I recommend that a competent person be appointed having an assistant at all times, who shall make an examination of the guides buntings and sides of shaft, and certify the working condition of same in writing in a book provided for the same at the mine where examination was made.

The person making such examination to sign for same in writing.

ROPES AND CAGES.

I recommend that a competent person be appointed, who shall and will examine or inspect the ropes and cages connected with any shaft that is used for the purpose of hoisting or lowering of men and coal; the same shall be recorded in a book in writing and signed by the person making such examination.

This examination to be made daily at a time specified by the Superintendent or Manager.

LANCE B. HOLLIDAY,
Mine Inspector, 9th District.

*CONDITIONS OF THE MINES IN THE NINTH DISTRICT AS EX-
AMINED SINCE MAY 10TH AND JUNE 30TH, 1909.*

*RALEIGH COUNTY.**LAURA MINING COMPANY.*

Series No. 907. *Laura Mine.*—This is a slope mine located at Red Star, on the Loup Creek Branch of the C. & O. Ry., six miles from Thurmond, operating the Sewell Seam. Double entry system, plan of working room and pillar. This mine has a bad roof, full of slips that are overlying one another, great care is taken in securing working plans and all roadways leading thereto. Safety powder and common black powder is used at this mine. Ventilation produced by a 12x7 ft. McCrimmon fan, which gives fair results.

THOMAS NICHOLS, Supt.

THOMAS MORGAN, Mine Foreman.

*FAYETTE COUNTY.**THE STAR COAL & COKE COMPANY.*

Series No. 911. *Star Mine.*—This mine is located at Red Star, on the Loup Creek Branch of the C. & O. Ry., six miles from Thurmond. The mine is opened out on the double entry system, operating the room and pillar system, in the Sewell Seam.

The roof is of a brittle nature and the mine in some sections being dry and dusty. This mine gives off gas freely, and is carefully watched. Black powder is used, but shot-firers are employed. Clay tamping used. Ventilation being produced by a 10x5 1-2 ft. Capell fan, which gives fair results.

DAVID EVENDÓLL, Supt.

PETER EVENDOLL, Mine Foreman.

HENRY PRICE, and RICHARD OWENS, Fire Bosses.

COLLINS COLLIERY COMPANY.

Series No. 912. *Collins No. 1 Mine.*—This a drift mine, located on the Loup Creek Branch of the C. & O. Ry., seven miles from Thurmond, opened

out on the double entry system, operating the Sewell Vein, on the room and pillar. This mine is damp throughout. The bottom is soft. Part of this has a rock roof, and other parts have heavy draw slate, which requires close attention. No gas detected in the mine at all. Black powder is used at present. Shot-firers employed, tamping with clay. Ventilation being produced by an 18 foot Clifford fan, which is giving satisfactory results.

FRED DIXON, Jr., Supt.

J. W. WEDGEWOOD, Mine Foreman.

Series No. 913. *Collins Nos. 2 & 3 Mines*.—These are drift mines, opened out on the double entry system, in the Sewell Seam, located on the Loup Creek branch of the C. & O. Ry., seven miles from Thurmond. These are very old mines opened out on the old system, pillar and slate system. The greater part of these mines is robbing. These mines are damp throughout, having a very soft bottom, and also a heavy roof, which needs close attention. At present black powder is being used. Shot-firers employed. Ventilation being produced by an 18x7 ft. Clifford fan which gives good results. All holes stemmed with clay.

FRED DIXON, Jr., Supt.

J. W. WEDGEWOOD, Mine Foreman.

FAYETTE COUNTY.

WHITE OAK FUEL COMPANY.

Series No. 914. *Wingrove Mine*.—This is a shaft mine located on the White Oak Branch, a branch of the Loup Creek Branch of the C. & O. Ry., nine miles from Thurmond, opened out on the triple entry system, room and pillar plan, operating the Sewell Seam. The roof is of a brittle nature and in parts sand stone, generates a small amount of gas, chiefly given off from the bottom or floor. Ventilation being produced by a Capell fan 16x5 ft., which gives good results. Drainage fair. This is a damp mine. Safety powder being used exclusively.

A. D. CALLAHAN, Supt.

JOHN HOLMES, Mine Foreman.

GEO. SCOTT, Fire Boss.

AUDY ASTON, —————

Series No. 915. *Scarbro Mine*.—This is a shaft mine located on the White Oak Branch, a branch of the Loup Creek Branch of the C. & O. Ry., nine miles from Thurmond, opened out on the double entry system, operating the Sewell Seam. This mine in parts has a very bad roof. It is wet throughout, generates gas, but is well taken care of. It is worked on the room and pillar plan. Safety powder used exclusively. Shot firers engaged who shoot all shots, also use clay tamping. Ventilation produced by 12x4 1-2 foot Capell fan, which gives very good results.

A. D. CALLAHAN, Supt.

MICHAEL BARREN, Mine Foreman.

RALPH BRADDON, Asst. Supt. FRED DIXON, Fire Boss.

Series No. 916. *Whipple Mine*.—This is a shaft mine, located at Whipple on the White Oak Branch, a branch of the Loup Creek Branch, of the

C. & O. Ry., ten miles from Thurmond. This mine is opened out on the triple entry system in the Sewell Seam. Pillar and stall plan. This is a very wet mine, and generates gas freely, and is well taken care of by the officials in charge. It has also a brittle roof, and requires close timbering. Safety powder is used exclusively, clay tamping shot firers engaged, who shoot all shots. Ventilation is produced at the mine by a 15x5 1-2 feet Clifford fan, which gives good results.

W. FARRELL, Supt.

SAMUEL HALE, Mine Foreman.

S. COOPER, Fire Boss.

JOHN LIGHTFOOT, ———

Series No. 918. *Oakwood Mine*.—This is a shaft mine located at Carle on the White Oak Branch, a branch of the Loup Creek branch of the C. & O. Ry., ten miles from Thurmond. This mine is opened out on the triple entry system in the Sewell Seam, and is naturally damp and generates gas, but is well taken care of by the officials. Taking it throughout is has a fairly good roof. This mine is worked exclusively with safety powder, and all holes tamped with clay, shot firers who shoot same. Ventilation produced by a 20x8 foot Capell fan, which gives good results.

E. COCKBURN, Supt.

W. A. JONES, Mine Foreman.

THOS. HARRINGTON, Fire Boss.

STUART COLLIERY COMPANY.

Series No. 919. *Parral Mine*.—This is a shaft mine on the White Oak Branch, a branch of the Loup Creek Branch, of the C. & O. Ry., fifteen miles from Thurmond. This mine is opened out on the triple entry system, operating in the Sewell Seam. Room and pillar system. This mine gives off gas freely, but is taken care of. This mine has a treacherous roof and requires close timbering. The gretaer portion of the mine is damp, safety powder is used exclusively. Clay tamping used, shot firers appointed to fire all shots. Ventilation produced by an 18x7 foot Capell fan, which gives good results throughout the mine. All safety appliances in good working condition.

EVAN COCKBURN, Supt.

JOHN POWELL, Mine Foreman.

TEDDY MILLS, Fire Boss.

Series No. 921. *Stewart Mine*.—This is a shaft mine located at Stuart on the White Oak Branch, a branch of the Loup Creek Branch, of the C. & O. Ry., sixteen miles from Thurmond. This mine is opened out on the triple entry system, operating the Sewell Seam. Room and pillar plan. The mine generates freely. Comparatively wet in general. The roof in this mine is fairly good. Safety powder used exclusively, clay tamping, shot-firers engaged who shoot all shots. Ventilation is produced by an 18x7 foot Capell fan, which gives good results.

JOSEPH HARRIMAN, Supt.

MICHAEL BRENNAN, Mine Foreman.

JAMES M. DONALD, Fire Boss.

NICHOL COLLIERY COMPANY.

Series No. 922. *Nichol Mine*.—This is a slope mine at Glen Jean located on the Loup Creek branch, of the C. & O. Ry., seven miles from Thurmond, opened out on the double entry system, operating the Sewell Vein, room and pillar plan. This is a damp mine generally, but generates gas freely and requires every attention on the part of the official. They use safety powder exclusively. Ventilation being produced by a 10x5 foot Capell fan, which gives good results.

F. SHARPE, Supt.

W. A. WATKEYS, Mine Foreman.

THOMAS MASON, Fire Boss.

NEW RIVER COLLIERIES COMPANY.

Series Nos. 923, 924 & 925. *Sun Nos. 1, 2 & 3*.—These mines are located on the Loup Creek Branch of the C. & O. Ry., eight miles from Thurmond. These are a group of mines within another. The coal is taken by slope and shaft, opened out on the double entry system in the Sewell Vein. The Tucker section of the mines has a very heavy draw slate and has a tendency to be dry. While the Price section of this mine has a favorable roof. This mine is worked in the pillar and stall plan. In the Price section the drainage is only moderate and also generally free of gas, which requires careful attention. Safety powder is used and holes tamped with clay. Ventilation is produced by two fans, one stationed on the head of No. 3, one on the head of No. 1, 12x4 1-2 foot Clifford Type high speed, one on the head of No. 5, 15x5 1-2 foot Capell fan, which gives good results.

JAMES MARTIN, Supt.

ZACK EVANS, Mine Foreman.

J. L. NELSON, JOHN MILLEAR COPE, JNO. ALLENBAUGH,

Fire Bosses.

*RALEIGH COUNTY.**McKELL COAL & COKE COMPANY.*

Series No. 939. *Graham Mine*.—This is a drift mine located at Graham Branch of the Loup Creek branch on the McKell line, about fifteen miles from Thurmond, opened out on the double entry system. Room and pillar plan of working, operating the Sewell Seam. Has a brittle roof in most parts of the mine, and requires close timbering. No gas detected in this mine. Ventilation produced by a 9x4-six ft. Capell fan, gives good results. Safety powder is used exclusively.

F. HINDSON, Supt.

FRANK BEARD, Mine Foreman.

Series No. 940. *Tam Roy Mine*.—This mine is located at Tamroy, Branch of Loup Creek Branch, on the McKell line, 18 1-2 miles from Thurmond. Opened out on the four entry system, working the Sewell Seam. Drainage only moderate. Has a brittle roof. No gas detected in this mine. Its principal working at present is entry work. They are

making developments for its future operation for a large output when fan is completed, which is about in readiness and will give better results, but at present is worked by furnace and results are only moderate. The mine is worked with safety powder and clay tamping is used.

F. HENSON, Supt.

O. NUCKLES, Mine Foreman.

PINEY MINING COMPANY.

Series No. 951. *Riley Mine No. 3.*—This is a drift mine opened out on the double entry system in the Sewell Seam. The mine is located on the Piney Branch of the C. & O. Ry., fourteen miles from Prince, its coal having to be hauled two miles by tramway to tipple at railway. This mine is a damp mine and has a very heavy draw slate, which requires very close timbering.

It is worked exclusively by safety powder and clay for tamping. Its ventilation being produced by a 6x1 1-2 foot Stem Type fan high speed, which only gives moderate results.

ARTHUR MITCHELL, Supt.

MORRIS McGUIRE, Mine Foreman.

RALEIGH COAL & COKE COMPANY.

Series No. 955. *Raleigh No. 1 Mine.*—This is a drift mine located on the Branch of the C. & O. Ry., on the Piney River, about thirteen miles from Prince. This mine is principally robbing. Ventilation produced by a 6x1 1-2 foot high speed Stine type fan, which gives good results. Safety powder being used and clay for tamping. No gas given off. This mine being comparatively damp throughout.

J. P. WHITE, Supt.

TERRENCE CONWAY, Mine Foreman.

Series No. 956. *Raleigh No. 2 Mine.*—This is a drift mine on the Piney River Branch of the C. & O. Ry., about thirteen miles from Prince. The mine is principally robbing, which requires extra precaution and close attention to timbering. Ventilation being produced by fan 6x1 1-2 feet Stine Type high speed, which gives good results. This mine is more or less damp throughout. Safety powder being used exclusively—tamping with clay.

J. P. WHITE, Supt.

TERRENCE CONWAY, Mine Foreman.

Series No. 957. *Raleigh No. 3 Mine.*—This is a drift mine opened out on the double entry system, having a dip of 3 1-2%. Located on the branch of the Piney River of the C. & O. Ry., about twelve and one-half miles from Prince. The operations are all in the Fire Creek Seam, Method Room and Pillar system. In sections it carries a very brittle roof—some parts of roof are sandstone, everything in the mine going to the dip. Drainage only moderate. This is a very large mine, pretty well damp throughout. No gas observable. The mine is ventilated by three 6x1 1-2 feet high speed Stine type electric fans, which only give moderate results. The company is proposing to put in Sirroco fans, which will

then be able to give better results. This mine is worked exclusively on safety powder.

J. P. WHITE, Supt.

JOHN McARTHUR, Mine Foreman.

Series No. 959. *Raleigh No. 5 Mine*.—This is a drift mine located on Little White Stick on the Piney Branch of the C. & O. Ry., and is about fourteen miles from Prince, opened out on the double entry, working the Sewell Seam. This is a very wet mine throughout, and has a heavy draw slate and requires great care in securing the roof. The mine is worked exclusively with safety powder, clay tamping and no gas found. Ventilation being produced by fan 6x1 1-2 feet Stine type slow speed.

J. P. WHITE, Supt.

SAM ROBERTSON, Mine Foreman.

Series No. 960. *Raleigh No. 6 Mine*.—This is a drift mine located on Little Beaver, one mile from the Branch of the C. & O. Ry., on Piney River, about thirteen miles from Prince. This mine is opened out on the four entry system in Fire Creek Seam on the pillar and room plan. Its drainage is only moderate. No gas being detected. The mine has a heavy draw slate and requires close attention. Ventilation is produced by two six 1 1-2 foot high speed Stine type fans, power used is electric which gives fair results. The mine is worked exclusively with safety powder. Clay tamping used.

J. P. WHITE, Supt.

W. ZWILLING, Mine Foreman.

BLUE JAY COAL AND LUMBER COMPANY.

Series No. 961. *Blue Jay Mine*.—This is a drift mine opened out on the double entry System in the Fire Creek Seam, working on the Room and Pillar System. Is damp throughout and has a very heavy draw-slate. No gas detected. Its ventilation being produced by a Robinson fan 8x2 1-2 feet which gives very good results. Safety powder used exclusively and clay used for tamping.

P. C. LYNCH, Supt.

PATTON McQUADE, Mine Foreman.

CRANBERRY FUEL COMPANY.

Series No. 966. *Sprague Mine*.—This is a slope mine, located on Piney River and Paint Creek, branch of the C. & O. Ry., fourteen miles from Prince, on the double entry system. This mine has a heavy draw slate, which is treacherous at times. Opened on the pillar and room system. Its drainage is only moderate. This mine is worked exclusively by a safety powder, and clay for tamping. No gas given off. Its ventilation being produced by a 10x2 1-2 foot Stine type fan, which only gives moderate results. Have recommended that the speed of the fan be increased.

JOHN WILSON, Supt.

WAYMAN HURT, Mine Foreman.

Series No. 968. *Cranberry Mine*.—This is a shaft mine, located on the Piney River off the Paint Creek Branch of the C. & O. Ry., eighteen miles from Prince. It is opened up on the double entry system, operating the

Sewell Seam, working on the pillar and stall plan. It has a bad slate roof in most parts of the mine, and requires careful timbering. Small amount of gas given off, which is well diluted. Its ventilation being produced by an 18x7 foot Capell fan, which gives very good results. Safety powder being used exclusively, and all holes tamped with clay. Shaft is well equipped,, and provided with safety signals.

JAMES CLARKE, Supt.

JOHN DAVIS, Mine Foreman.

RICHARD ROBERTS, Fire Boss.

Series No. 969. *Prosperity Mine*.—This is a shaft mine, located on the Piney River of the Paint Creek Branch, of the C. & O. Ry., eighteen miles from Prince. It is opened up on the double entry system Sewell Seam. This mine has a slate roof, its bottom being of a soft nature requires careful timbering. Generates a small amount of gas which is well cared for. Worked on the pillar and stall plan. Its ventilation beng produced by an 18x7 foot Capell fan, which gives very good results. Safety powder being used exclusively and all holes being stemmed with clay. Shaft is properly equipped, and provided with safety signals.

JAMES CLARK, Supt.

JAMES NESBIT, Mine Foreman.

WILLIAM HASLAM, Fire Boss.

MABSCOTT COAL & COKE COMPANY.

Series No. 970. *Mabscott Mine*.—This is a drift mine located on the Piney Branch of the C. & O. Ry., and sixteen miles from Prince, operating in the Sewell Seam, on the double entry system. The greater portion of this mine is robbing. The ventilation being produced by a Robinson fan 8x4 feet, giving fair results. The draw slate is very treacherous and requires careful timbering. Drainage moderate. Safety powder used.

J. R. KREBBS, Supt.

W. D. LEE, Mine Foreman.

BECKLEY COAL & COKE COMPANY.

Series No. 972. *Beckley Mine*.—This is a slope mine located on the Piney Branch of the C. & O. Ry., seventeen miles from Prince, operating in the Sewell Seam. Double entry system room and pillar plan. The slate in this mine if of a brittle nature, other section has a fairly good roof, still requires careful timbering. Drainage good. Safety powder used throughout. Ventilation produced is by Robinson fan 10x5 feet, giving good results.

G. R. KREBBS, Supt.

COBBS, Mine Foreman.

WILLIAM WATTIS Fire Boss.

NEW RIVER COLLIERIES COMPANY.

Series No. 973. *Eccles No. 11 Mine*. — This is a shaft on the Piney Branch of the C. & O. Ry., twenty miles from Prince, working the Beckley and Sewell Seams. This is comparatively a new mine, with a fairly good roof. This is a wet mine. The lower seam of Beckley

gives off considerable gas. Safety powder is being used exclusively. Ventilation being produced in this mine by an 18x7½ ft. Capell fan which gives very good results.

JAMES MARTIN, Supt.

L. L. BLENKINSOPP, Mine Foreman.

D. G. EDWARDS, Fire Boss.

TENTH DISTRICT.

GENERAL SUMMARY OF THE TENTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings. No. Persons Killed.		EMPLOYEES.								Production of		
			Inside.					Outside.				Coal.	Coke.
	Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers	Totals.	Sum Totals	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)		
Mercer ----- M'Dwl (prt)	31 24	13 133	1,442 2,066	48 22	22 6	722 1,013	2,234 3,127	390 546	309 758	699 1,304	2,933 4,431	2,103,263 2,560,192	220,646 383,870
Totals--	55	146	3,528	70	28	1,735	5,361	936	1,067	2,003	7,364	4,663,455	604,516

OFFICE OF THE MINE INSPECTOR OF THE 10TH DISTRICT.

Bramwell, W. Va., March 31st, 1909.

HON. JOHN LAING,

Chief of the Department of Mines,
Charleston, W. Va.

DEAR SIR:—

I herewith submit my report covering the period from July 1st, 1908, to March 31st, 1909, inclusive, my resignation from the service taking effect upon the latter date.

During the time covered by this report I made 84 regular, and 34 special inspections in this District, and several joint inspections in the 11th District.

I regret to report a total of 110 individual accidents, 93 of which were non-fatal and 17 fatal; the fatal accidents with the exception of two were personally investigated by me. I found that the majority of the accidents could have been prevented, if the victims themselves had used ordinary precautions to protect themselves; several however were unavoidable, the danger being invisible and unexpected.

The number of fatalities for this District are greatly increased, owing to the two successive explosions which occurred in the Lick Branch mine on Dec. 29th, 1908 and January 12th, 1909, resulting in the death of 118 persons.

It is unnecessary to enter into a detailed account of these disasters here, as this Annual Report will contain the report of the Chief of the

Mining Department upon the same, and the results of the investigations made by himself and others.

I was obliged to prosecute quite a number of persons for various violations of the mining laws, the greatest number being for blasting coal from the solid. These prosecutions have resulted in lessening this dangerous practice, but has not eliminated it by any means. Upon my last inspection I found evidence that it was still practiced in some mines, but that the miners were more cunning about it. The hearty co-operation of the Mine Officials is necessary before the practice can be entirely eliminated, many of them gave me their support. A number of prosecutions being at the instance of Mine Superintendents, and in several cases they were the prosecutors. All those prosecuted were found guilty and fined as the law prescribes.

The work of inspection was interrupted in many ways; there were requests for assistance in the inspection of mines in the adjoining districts, several calls to appear at Charleston for various purposes, investigations of fatal accidents, rescue work in the Lick Branch explosions, and the subsequent investigation with a view of arriving at the cause.

There seems to be a growing inclination upon the part of the Operators and their representatives, to comply with the requirements of the law, and to render assistance to the Mining Department in enforcing it, which is a good indication that they are awakening to the fact, that a mine operated in conformity with the requirements of the law is more profitable than one which is not.

Improvements in the ventilation, drainage, etc., have been general throughout the district. Owing, however, to the poor condition of the trade during the year, many improvements in the way of better equipment, which was contemplated, has been postponed until business has a better outlook.

My experience has impressed me with the necessity of a specific law covering the blasting of coal. No inexperienced person should be permitted to do any blasting in the mine with any kind of explosive. A shot-firer's bill requiring that all coal be blasted by selected, experienced men, can be so framed as to impose no undue hardship upon either Operator or miners. The bill can also provide for shot-firers assistants, who can learn the business, and in that way keep up the supply of practical shot-firers.

A law requiring that Mine Foremen and Fire Bosses pass an examination to show their qualifications for the very responsible positions they occupy, should receive the support of every progressive Operator. There does not seem to be any reasonable argument in favor of selecting a man for the position of Mine Foreman or Fire Boss, who cannot pass such an examination, in preference to one who can, providing their practical experience is about equal. That many would receive Certificates of Competency who did not deserve them, through favoritism, influence or any other way, is not an argument against the system; but rather a suggestion of the possibility of a corrupt board of examiners; as Mine Foremen and Fire Bosses are selected at this present time, favoritism and influence are the principal factors except in rare cases. It would appear,

judging from some of the Mine Foremen in this district, that a premium is placed upon ignorance. They do not subscribe for a periodical dealing with their business, neither do they own a text book on the subject of mining, yet some of these men have charge of mines that are exceedingly dangerous under certain conditions, which they do not realize because of their limited experience, and for the reason that they do not benefit by the experience of others.

As I am retiring from the service of the Department, I cannot be accused of selfish motives if I suggest that an increase in the salaries of the Chief of the Department and the District Mine Inspectors, would result in more efficient mining men making application for the positions. This would enable the Chief of the Department to select more competent, better equipped men for the service; men whose knowledge of mining would command their respect of those with whom they come in contact. There seems to be at present a disposition to regard the Mine Department with scant respect; their ability and integrity have been criticised without restraint. Men who had neither practical, technical, or scientific knowledge of mining, have been deemed competent to investigate the Mining Department to determine if they were performing their duties properly, and also to investigate into the causes of mine explosions, etc. No greater contempt for the intelligence of the Department could have been shown, than this selection of men who were not their peers even in practical knowledge, to pass upon their competency and integrity. No good has been accomplished, but rather much harm; a feeling of contempt for the Mine Department of West Virginia, extending wherever in the states, our newspapers are read, has been engendered. It is to be hoped that politics will play a less important part in the selection of the personnel of the Department in the future than in the past.

In concluding my report I wish to thank the Operators and Mine Officials of this district for the many courtesies they have extended me during my occupancy of the Office; I wish also to thank you for your kindness, advice and assistance in the discharge of the duties of the Office.

Yours very truly,

D. R. PHILLIPS,

Inspector 10th District.

CONDITION OF THE MINES IN THE TENTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz: 1017 indicates the Tenth district and number 17 mine.

MCDOWELL COUNTY.

ALGOMA COAL & COKE COMPANY.

Series No. 1001. *Northfork Mine. Coaling Station.*—This is a drift mine located on Burk Creek one-fourth mile west of the town of North-

fork. The No. 3 Pocahontas seam is being operated. With a few exceptions the workings are all in pillars. Ventilation is produced by a 10 ft. fan, and is fairly well distributed. The roof and drainage are poor. The recovery of the pillar coal is attended by danger and the amount recoverable uncertain, which condition is due to previous mismanagement of the mine.

WM. J. BEURY, Supt.

GUY TAYLOR, Mine Foreman.

Series No. 1002. *Piney Mine*.—This mine is located on Buzzard Creek, about one mile north of Northfork. It is a drift opening, operating the No. 3 Pocahontas seam. The ventilation is produced by a 10 foot fan operated by an electric motor connected to the generator by an independent wire. The air current is divided into two splits, is well conducted and distributed. Permanent stoppings are built wherever required. The mine is well taken care of. There are about 135 men employed in the mine, the average output is 700 tons daily. Height of coal 5 ft. 11 inches.

WM. J. BEURY, Supt.

JOHN LOGAN, Mine Foreman.

ELK RIDGE COAL & COKE COMPANY.

Series Nos. 1003, 1004. *Elk Ridge Nos. 1 & 2 Mines*.—Are located three-fourths of a mile from Northfork. They are drift openings, operating the No. 3 Pocahontas seam; both openings deliver their coal to the same plane. They are ventilated by two 16 ft. fans each mine being ventilated separately. The air currents are very well distributed throughout the working faces. Upon my last visit I found the mine operated in conformity with the requirements of the law, except in the matter of check doors. Both mines together employ 110 to 120 employes inside. The output is 1100 tons daily. Thickness of seam 6 ft., 6 inches.

A. J. DALTON, Supt.

H. F. CREAKMAN, Mine Foreman.

GILLIAM COAL & COKE COMPANY.

Series No. 1005. *Gilliam Mine*.—This mine is located on the Northfork branch of the N. & W. R. R., two miles from Northfork. It is a drift mine operating the No. 3 Pocahontas Seam.

The ventilation is produced by an 18 ft. fan, the current being divided into 2 splits and is well distributed throughout the mine. Drainage and roof are good; the requirements of the law are fully complied with; daily output about 1000 tons, thickness of seam 5 ft. Number of men employed inside, 135. Haulage is done by electricity.

J. C. Campbell, Supt.

J. W. YOST, Mine Foreman.

INDIAN RIDGE COAL & COKE COMPANY.

Series No. 1007. *Indian Ridge Mine*.—Is located about four miles from Northfork on the Northfork branch of the N. & W. R. R. It is a drift mine in the No. 3 Pocahontas seam, which averages 5 ft. in thickness. Ventilation is produced by a 9 ft. Capell fan; the current is divided into 2

splits, and is well distributed to the working faces. Haulage is done by electric motors. Output of mine averages 1100 tons daily. Number of men employed 100. This mine is very efficiently managed. All requirements of the law were complied with at my last inspection.

A. D. RICE, Supt.

H. A. TAYLOR, Mine Foreman.

ROANOKE COAL & COKE COMPANY.

Series No. 1008. *Roanoke Mine*.—Is located on the Northfork branch three and one-half miles from Northfork. It operates the No. 3 Pocahontas seam which is 5 ft. 2 inches thick. About 100 employes are engaged inside the mine. The output is on the average 700 tons daily. Ventilation is produced by a 10 ft. fan, the current being divided into two splits, which are well distributed in the working faces.

Haulage is had by means of electric motors. The mine is very efficiently managed, and met the requirements of the law in every respect at the last inspection.

W. N. CUMMINGS, Supt.

W. L. MARSHALL, Mine Foreman.

W. C. EASLEY, Former Supt.

ARLINGTON COAL & COKE COMPANY.

Series No. 1009. *Arlington Mine*.—Is located on the Northfork branch four miles from Northfork. It is a drift opening in the No. 3 Pocahontas seam, and employs an average of 133 men in the mine. The output averages 800 tons daily. The height of seam is 5 ft., 2 inches. Haulage is done by electricity. Several gathering motors are used with great success. Ventilation is produced by an 18 ft. fan, the air current is divided into two nearly equal splits, is ample for all needs, being well conducted and distributed throughout the working faces. This management is to be commended for the excellent condition of the plant generally.

J. C. CAMPBELL, Supt.

ALFRED HALL, Mine Foreman.

GREENBRIER COAL & COKE COMPANY.

Series No. 1010. *Greenbrier Mine*.—Is located on the Northfork branch, about five miles from Northfork. It is operating the No. 3 Pocahontas seam. The average thickness is 5 ft. 10 inches. The output averages 800 tons daily. Haulage is done by electricity, two gathering motors are being used inside to assist in gathering the coal from the rooms and headings to the sidetracks and are considered a success.

Ventilation is produced by means of a fan, 13 ft. in diameter. The current is distributed in three splits and meets the requirements of the law in every respect. Much gas is occasionally found in one of the entries, but a slight trace only. Drainage, roof and roadways are in excellent condition. A water car is used to wet the dust in the few spots where it is found. The number of employes engaged inside the mine is on the average 130.

JAIRUS COLLINS, Supt. & Mgr.

THOS. B. WHITE, Mine Foreman.

McDOWELL COAL & COKE COMPANY.

Series No. 1011. *McDowell Mine*.—Is located at McDowell on the Northfork branch; it is a drift mine, operating in the No. 3 Pocahontas seam, and is 5 ft. 6 inches thick. The roof is good above the draw slate. An average of 161 persons are employed in the mine. The average daily output is 1200 tons. The ventilation is had by means of a 13 ft. Capell fan, and a 20 ft. ordinary type fan, distributed throughout the mine in five separate and distinct splits. On account of the tendency to an accumulation of dust in several entries, water sprays have been installed at intervals on the in-take airway, steam is introduced with the water in order to raise its temperature so as to have saturation in as short time as possible. This plan is very successful in laying the dust. Upon my last inspection I found the mine in compliance with law in every particular.

H. W. RAWSON, Supt.

J. C. LOVERING, Mine Foreman.

ASHLAND COAL & COKE COMPANY.

Series No. 1012. *Monitor Mine*.—This mine is a drift opening in the No. 3 Pocahontas seam and is located on the Northfork branch three-fourths of a mile from Ashland. It employs 85 to 90 persons inside the mine and has an average daily output of 450 tons. The coal averages 5 ft. in thickness. The roof and drainage are good. Ventilation is produced by a 20 ft. fan which produces an abundant supply which was not as well distributed upon my last inspection as it might have been. This was, in part owing to the fact that a change was being made in the air current, dividing it into three splits instead of two, and partly owing to the very temporary stoppings in the break-throughs, which I was assured would be remedied as soon as opportunity would permit. Haulage at present is by steam locomotives, but the installation of an electric plant is about completed.

T. J. O'NEIL, Supt.

R. J. WHITTINGTON, Mine Foreman.

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY.

Series No. 1013. *Cherokee Mine*.—Is a drift in the No. 3 Pocahontas Seam, located one and one-half miles from Ashland on the Northfork Branch. The coal averages 5 ft. in thickness. About 65 persons are employed in the mine. The average daily output is 375 tons. Ventilation is supplied by a 10 ft. fan. The current is distributed in two splits, and upon my last inspection was very good at the face of the workings.

Roof and drainage are good. An attempt is made to comply with the requirements of the law.

JAIRUS COLLINS, Mgr.

GEO. R. SCOTT, Mine Foreman.

ASHLAND COAL & COKE COMPANY.

Series No. 1014. *Ashland Mine*.—This is a drift mine in the No. 3 Pocahontas seam, which averages 5 ft. in thickness. The mine employs 75

or 80 persons inside. The output is about 500 tons daily. Haulage is done by steam locomotives, which will be replaced in the near future by electric haulage. Ventilation is produced by a 16 ft. fan, the air current being divided into three splits, which is well distributed to the face of the workings. Roof and drainage are good.

The management are disposed to do everything possible to meet the requirements of the law.

T. J. O'NEIL, Supt.

ELLIS, SHEETS, Mine Foreman.

ZENITH COAL & COKE COMPANY.

Series No. 1015 & 1016. *Zenith Nos. 1 & 2 Mines.*—These mines are located at the terminus of the Northfork branch, near the town called Crumpler. They are drift openings in the No. 3 Pocahontas seam. They are connected inside, and deliver their output to the same tippie. The coal is 5 ft. thick. About an average of 86 persons are employed, and the output from both mines is about 675 tons daily. The ventilation is produced by two fans each 12 ft. in diameter, one for each mine. These mines during the winter months are very dry and dusty. The dust being due principally to a slaty rosh about two inches thick, which overlies the seam. The rosh disintegrates very rapidly when exposed to the atmosphere. It is not believed that this dust will explode under any conditions, but at the present writing a sample is in the experimental station at Pittsburg, and the operators of these mines are anxiously awaiting the results of the test. These mines changed owners during the year.

A. D. RICE, Mgr.

JOHN M. WATT, Mine Foreman.

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY.

Series No. 1017. *Lick Branch Mine.*—This mine is located at Switch-back on the main line of the N. & W. R. R. There are two drift openings called old and new mine. The seam being mined is the No. 3 Pocahontas which is 8 ft. 2 inches thick at this place. The coal was being undercut by electric chain machines.

An explosion of coal dust occurred in the old mine on the 29th day of December, 1908, which resulted in instant death to fifty persons and injured three persons, one of whom died later in the Miners' Hospital. The explosion did not affect any portion of the new mine, and operations were resumed there in ten days after the explosion with a number of men who were strangers to the locality. After the mine had been in operation four days an explosion of greater force occurred in the new mine, extending over both mines resulting in death to all persons except one, who were in both mines, 67 in all.

After the first explosion every precaution thought of was taken to prevent a recurrence of such a calamity. Among other precautions a practical man experienced in mine matters, and of years of varied experience in mines was appointed as Mine Inspector, whose duty was to examine the whole mine daily; he was killed in the second explosion.

At the time of the last examination of the mine previous to the explo-

sion these mines were in good conditon, meeting all the requirements of the law. During the intervening period three changes of Mine Foremen were made, and when the mines were examined after the first explosion a number of places were found which were driven far in advance of the distance between breakthroughs permitted by law. A report of the results of the investigations by several of the Mine Inspectors made with a view of ascertaining the cause of the explosions' will be found in this report. The officials in charge of the mine at the time of the explosion were

CHAS. W. ATKINSON, Gen. Mine Foreman.
CLEVE H. BOWERS, Mine Foreman.

Seres No. 1018. *Delta Mine*.—This mine is located near Switchback on the main line of the N. & W. R. R. It is a drift opening in the No. 3 Pocahontas seam, which at this place is 8 feet thick. Ventilation is produced by a 16 foot fan which is electrically driven. The air current is divided into two splits, which is well distributed throughout the working faces. An average of 90 persons are employed in the mine producing a daily output of 800 tons, the greater part of which is mined by electric chain machines. A slight trace of fire-damp is found occasionally in the main entries. The roof is frail in some parts of the mine, especially in the present pillar workings. Drainage is deficient in some parts. Haulage is performed by electric motors. Every effort is made to comply with the law or any recommendations of the State Mine Inspector.

E. H. JONES, Supt.

CHAS. W. ATKINSON, Gen. Mine Foreman.
CLEVE BOWERS, Mine Foreman.

Series No. 1019. *Shamokin Mine*.—This mine is located on the main line of the N. & W. R. R. near Switchback. It is a drift opening, operating the No. 3 Pocahontas seam which is 8 ft. thick; 18 inches of this is left up for roof. One hundred and twenty-two persons are employed in the mine. The average output is 1000 tons daily. Ventilation is produced by a 16 ft. fan, which gives ample supply. The current of air is divided into 3 splits well distributed to the face of the workings. A new fan is on the ground ready for installation. The lease is extensive and this provision is made for the future operation, the new fan being of much greater efficiency than the one in use at present. The roof is good generally. Drainage good. The law is complied with in every respect.

E. H. JONES, Supt.

H. J. REED, Mine Foreman.

Series 1020 & 1021. *Norfolk Nos. 1 & 2 Mines*.—This mine is located about one and one-half miles from Switchback on a branch from the main line of the N. & W. R. R. There are two drifts connected upon the inside, operating the No. 3 Pocahontas seam. One fan ventilates both mines and the output of both are delivered over the same tippie. The air current is divided into 3 splits and is well distributed through the workings. The average number of persons employed is 177. The output is 700 tons daily a large part of which is mined by electric chain machines. The roof in

the No. 1 mine is frail but improves in the No. 2 mine. Drainage is generally deficient. Haulage is done by electric motors. The mining law is very generally complied with.

E. H. JONES, Supt.

CHAS. W. ATKINSON, Gen. Foreman.

JOHN SHUFFLEBARGER, Mine Foreman.

Series No. 1022. *Angle Mine*.—Is located across the ravine from the Norfolk mine. It is a drift, opening in the No. 3 Pocahontas seam which is here 5 ft. 6 inches thick. A 20 ft. fan supplies ventilation which is ample for present needs; a new one will be installed in a few weeks, which is of the most modern make. The plans for the future ventilation of the mine includes the dividing of the air current into several splits. The number of persons employed in the mine is 78, producing an output of 400 tons daily, a small part of which is mined by a chain machine electric driven. The haulage is done with electric motors. The mine is well taken care of, and is operated in compliance with the requirements of the law, excepting in the matter of splitting the air current which will be done when the new fan is installed.

E. H. JONES, Supt.

W. H. PEARMAN, Mine Foreman.

ELKHORN COAL & COKE COMPANY.

Series No. 1023. *Elkhorn Mine*.—It is a drift opening in the No. 3 Pocahontas seam. It is located near Maybeury on the main line of the N. & W. R. R. The seam is 7 ft. thick. One hundred and seventy-two persons are employed in the mine, producing an output of 900 tons daily. Ventilation is produced by a 16 ft. fan; the current is divided into five splits, and is excellently distributed throughout the mine. The roof is very frail in some parts of the mine. Drainage is fair. Haulage is done with a steam locomotive. The solid coal is about exhausted; the greater portion of the coal now mined is in pillar workings. Great care is exercised at this mine to safeguard the employes from any possible accident. The law is fully complied with.

R. S. ORD, Supt.

L. B. HOLLIDAY, Mine Foreman.

MERCER COUNTY.

MILL CREEK COAL & COKE COMPANY.

Series No. 1024. *Coaldale Mine*.—Located on the main line of the N. & W. R. R. It is a drift mine, operating in the No. 3 Pocahontas seam, which is 9 ft. thick at this point. Ventilation is produced by a fan 18 ft. in diameter. It is divided into two separate currents. The mine employs 112 persons, and has an average output of 750 tons daily. The workings are practically all pillars. On account of the height of the seam and the frail nature of the roof, the recovery of the coal is difficult and dangerous. Haulage is done by electric motors. The officials exercise every precaution to minimize the dangers to their employes, exceeding the requirements of the law in many respects to accomplish this.

C. E. F. BURNLEY, Supt.

J. T. WOOD, Mine Foreman.

Series No. 1025. *Mill Creek West Mine*.—Is located near Cooper on the main line of the N. & W. R. R. It is a drift opening, in the No. 3 Pocahontas seam. The coal is 10 ft. thick of which two feet is left up for roof. There are an average of 56 persons employed in the mine, and the output is about 360 tons daily. Ventilation is produced by a 10 ft. fan, and is conducted through the working faces in one single current, and is well distributed. Haulage is done by electric motors. The roof is frail, as a rule, the pillar work being rather hazardous on this account. Very little solid coal remains in this lease. The best care possible under the conditions is taken to prevent accidents

C. E. F. BURNLEY, Supt.

J. W. JOHNSON, Mine Foreman.

Series No. 1026. *Mill Creek East Mine*.—Located across the narrow ravine from the West Mine, it being directly opposite. It is a drift mine in the No. 3 Pocahontas seam. The ventilation is produced by a 16 ft. fan and is ample. The workings are principally in pillars, very little solid coal being left in the lease. Twenty-nine persons are employed in the mine, producing an average of 160 tons daily. The roof is poor in the pillars. Drainage is deficient. Haulage is done by electricity. The law is complied with as far as conditions will permit.

C. E. F. BURNLEY, Supt.

J. W. JOHNSON, Mine Foreman.

Series No. 1027. *West Fork Mine*.—This is a drift mine located on the west fork of Mill Creek near Cooper station. It is a drift opening in the No. 3 Pocahontas seam. All of the workings are in pillars. The coal is 8 ft., 6 inches thick. The mine employs upon the inside 25 persons. The roof is very poor. Drainage is deficient generally on account of the influx of water through the breaks in the overlying strata after every rain.

C. E. F. BURNLEY, Supt.

J. W. JOHNSON, Mine Foreman.

Series No. 1028. *Tug River Mine*.—This mine is located on the head waters of Tug River. It is a drift opening in the No. 3 Pocahontas seam which is here 10 ft., 6 inches thick, 2 ft. of which is left up for roof, the overlying strata being very susceptible to the action of the atmosphere, which disintegrates it. There are 27 persons employed inside the mine producing a daily output of 165 tons. Ventilation is produced by a small fan, a temporary arrangement for the present the air current is well conducted to the face of the workings. Considerable improvement in the way of preparing for electric haulage has been done during the year. The haulage is done in the mine with electric motors and upon the outside by steam locomotives to the Coaldale Tunnel, where electric haulage is again used through to the Mill Creek Tipple. The total length to haul is about four and one-half miles. The law was being fully complied with upon the last inspection.

C. E. F. BURNLEY, Supt.

H. L. PRICE, Mine Foreman.

BUCKEYE COAL & COKE COMPANY.

Series No. 1029. *Buckeye South Mine*.—Is located about two miles

from Simmons on a branch road. It is a drift in the No. 3 Pocahontas seam which is 5 ft., 5 inches in thickness. Seventy-eight persons are employed in the mine, producing a daily output of 500 tons. Ventilation is produced by an 18 ft. fan the current being divided into two splits. An additional fan contemplated to assist the present one. No important improvement has been made during this year. The management are ever ready to accept and comply with any recommendations of the Inspector. J. C. PACK, Manager. JOHN H. WILLIAMS, Mine Foreman. R. F. HEWITT, Supt.

Series No. 1030. *Buckeye North Mine.*—This mine is located opposite the "South" mine in the same tract of coal; only a small number of employes are engaged in the mine. The output goes to the same tippie as that of the "South" mine. Ventilation is had by means of the same fan that ventilates the "South Mine." No improvement worthy of note has been made during the year. The law is being complied with so far as can be ascertained by inspection. J. C. PACK, Manager. JOHN H. WILLIAMS, Mine Foreman. F. R. HEWITT, Superintendent.

BOOTH-BOWEN COAL & COKE COMPANY.

Series No. 1031. *Booth-Bowen Mine.*—This mine is located on Simmons Creek about three miles from Simmons. It is a drift opening, operating the No. 3 Pocahontas seam. The ventilation is produced by a 20 ft. fan; the current of air is distributed throughout the mine in three splits. There are 93 persons employed in the mine producing a daily output of 800 tons. The haulage is performed by steam locomotives. The roof is good as a rule; drainage is also good; no improvement of any importance has been made since the last annual report. J. P. BOWEN, Supt. B. F. BRAY, Mine Foreman.

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY.

Series No. 1032. *Caswell Hemlock Mine.*—This mine is located two and one-half miles from Simmons on Simmons Creek. It is a drift opening in the No. 3 Pocahontas seam, which in this locality is 8 ft. in thickness. The ventilation is produced by a 14 ft. fan, and is divided into five splits well distributed to the working faces. Sixty-two persons are employed in the mine, the out-put being 500 tons daily. Haulage is performed by steam locomotives. The most important improvement since the last annual report, is the installation of a Robinson fan 14x6 ft., and the necessary electrical equipment to operate it. The roof is good generally. Drainage fair.

E. H. JONES, Superintendent. W. H. WALTERS, Gen. Mine Foreman. R. F. SMITH, Mine Foreman.

Series No. 1033. *Caswell Elkhorn Mine.*—This mine is located on Simmons Creek opposite the "Hemlock" mine in the same lease. Its ventila-

tion is supplied by the same fan which supplies the "Hemlock mine". The number of persons engaged in the mine are 80, and they produce 600 tons daily. Haulage is done by steam locomotive. Roof is, as a rule, good. Drainage fair. This mine is very efficiently managed. Every effort is made to comply with the law.

E. H. JONES, Superintendent.

W. H. WALTERS, Gen. Mine Foreman.

R. F. SMITH, Mine Foreman.

LOUISVILLE COAL & COKE COMPANY.

Series No. 1034. *Goodwill Mine*.—This mine is located on Flipping Creek, one mile from the town of Goodwill. It is a drift opening in the No. 3 Pocahontas seam, very little work was done at this mine during the last nine months, and it has not been insected.

JAIRUS COLLINS, Manager.

J. W. MONTGOMERY, Mine Foreman.

Series No. 1035. *Louisville No. 2 Mine*.—This mine is located on Flipping Creek near Goodwill. It is a drift mine operating the No. 3 Pocahontas seam. Eighty-five persons are employed inside of the mine and produce an average output of 500 tons daily. Ventilation is produced by a 6 ft. fan assisted by a Booster fan 3 1-2 feet. in diameter, located in the interior of the mine. The current is in two splits well conducted but not of sufficient velocity to carry away the noxious gases and smoke. A fan is now being installed on the Goodwill side which will be a much needed improvement. Haulage is done by electric motors. Roof is generally frail and drainage good.

JAIRUS COLLINS, Manager.

J. W. MONTGOMERY, Mine Foreman.

Series 1036. *Louisville Klondike or No. 3 Mine*.—This is a drift opening in the No. 3 Pocahontas seam. The tract is small comprising 37 acres adjacent to the Louisville No. 2 lease. Thirty-two persons are employed inside the mine producing 225 tons daily. Ventilation is produced by a 5 ft. fan. The air current is very well distributed. Haulage is done by electric motors. The roof is fair. Drainage deficient.

JAIRUS COLLINS, Manager.

J. W. MONTGOMERY, Mine Foreman.

CEPHUS COAL COMPANY.

Series No. 1037. *Cephus Mine*.—This mine is located on Crane Creek two miles from Montcalm. It is a drift mine in the No. 3 Pocahontas seam. Ventilation is produced by a small furnace and was sufficient for the number of employes in the mine, which was 18 when last inspected. Very little work has been done during the year. Roof generally good. Drainage deficient.

P. J. VIGILIANI, Supt.

D. M. THOMPSON, Mine Foreman.

CRYSTAL COAL & COKE COMPANY.

Series No. 1038 & 1039. *Crystal Nos. 2 & 4 Mines*.—These are located on

Crane Creek. They are drift mines, operating the No. 3 Pocahontas seam. They are connected inside and are ventilated by the same fan which is 10 ft. in diameter. The air current is divided into two splits which are well distributed. Drainage is good in No. 4 but very deficient in No. 2. The roof is generally good. One hundred and thirty-one persons are employed in the mine; the daily out-put is 500 tons. An effort is being made to meet the requirements of the law.

W. J. PRITCHARD, Supt. C. C. THOMPSON & JOHN HANCOCK,
Mine Foremen.

AMERICAN COAL COMPANY OF ALLEGHENY COUNTY.

Series No. 1040 & 1041. *Crane Creek Nos. 1 & 2 Mines.*—These are drift openings, operating the No. 3 Pocahontas seam. The ventilation is produced by a 25 ft. fan located at the No. 2 opening; this will be supplemented in the near future by an additional fan on the No 1 mine side. One hundred and thirty-eight persons are employed in the mine, producing 1000 tons daily. Haulage is done by electric motors; the mine is in excellent condition complying with every requirement of the law..

T. O. DEAUMER, Supt. J. H. HUGHES, Mine Foreman.

Series No. 1042. *Pinnacle North Mine.*—Is a drift mine, located near the head of Crane Creek. It is operating the No. 3 Pocahontas seam. Ventilation is produced by a 16 ft. fan, and is conducted through the mine in one single current. The height of the seam is 4 ft., 6 inches. Fifty-seven persons are employed in the mine, producing an out-put of about 300 tons daily. Haulage is done by electric motors. Roof is good. Drainage fair. The mine is in good condition. The installation of a better fan and the splitting of the air current is contemplated.

T. O. DEAUMER, Supt. J. L. DEWEES, Mine Foreman.

Series No. 1043. *Blundon "South" Mine.*—This is a drift mine across the ravine from the Pinnacle "North" mine, the coal being delivered to the same tippie. The height of the coal is 4 ft. 6 inches. It is ventilated by a 16 ft. fan, the air is conducted in a single current to the working faces. Sixty persons are employed in the mine; a split in the air current is contemplated for the near future. Haulage is done by electricity; roof is good; drainage deficient. The mine is in good condition generally and is well looked after.

T. O. DEAUMER, Supt. J. L. DEWEES, T. D. PARSELL, Mine Foremen.

THOMAS COAL COMPANY.

Series No. 1044. *Thomas Mine.*—This is a drift mine located at the head of Crane Creek, and operating the No. 3 Pocahontas seam. One hundred persons are employed in the mine, daily output 700 tons. Height of coal 4 ft. 6 inches. Ventilation is produced by a fan 18 feet in diameter, the current of air is in two splits which are well distributed through-

out the workings. Haulage is done by electric motors; drainage deficient in some parts. Roof is generally good. The officials show a disposition to comply with the law or any suggestions made by the inspector.

W. J. PRITCHARD, Supt.

T. C. DOOLEY, Mine Foreman.

PAWAMA COAL & COKE COMPANY.

Series No. 1045. *Pawama Mine*.—This mine is located on the Widemouth Creek at Matoaka. It is a drift opening operating in the No. 3 Pocahontas seam, which is 4 ft. 6 inches thick at this place. Sixty persons are engaged in the mine. A daily output of 300 tons is produced. A 7 foot fan supplies the ventilation, which is conducted in a single current throughout the mine, and is well distributed. Haulage is done by mule power. The roof is good, drainage fair. The law is observed in relation to stretchers, blankets, lamps, etc.

J. C. STRAS, Supt.

B. H. ENGLISH, Mine Foreman.

.. WENONAH COAL & COKE COMPANY.

Series Nos. 1046 & 1047. *Weyanoke Nos. 1 & 2 Mines*.—These are drift mines in the No. 3 Pocahontas seam, located one mile from the town of Matoaka. The seam is 4 ft 6 inches thick; both mines deliver their output to the same tippie. The total number of persons employed in both mines are 91, and the combined output is 600 tons daily. No. 1 mine is ventilated by a 12 foot fan; the volume of air is divided into two splits which are well distributed. No. 2 mine is ventilated by a small furnace, which is soon to be replaced by a fan; the current of air is well distributed but is too weak for all purposes. Haulage is done by means of electric motors. Roof is generally good above the draw slate.

R. D. PATTERSON, Supt.

JOHN S. WOODYARD, Mine Foreman.

AMERICAN COAL COMPANY OF ALLEGHENY COUNTY.

Series No 1048.. *Piedmont Mine*.—This is a drift mine in the No. 3 Pocahontas seam, located on a branch of the Widemouth Creek. It is ventilated by a fan 8 ft. in diameter. The current is very well distributed. There were only 22 persons employed in the mine upon our last visit. The seam is difficult to mine on account of a stone parting in the middle. A new system of mining introduced by the present management seems to give satisfactory results.

T. O. DEAUMER, Supt.

C. R. IRVING, Mine Foreman.

SMOKELESS COAL & COKE COMPANY.

Series No. 1049. *Smokeless Mine*.—This is a drift mine in the No. 3 Pocahontas seam and is located near Hiawatha on the Widemouth Creek. The seam is 5 ft. thick, a band of slate varying in thickness from 2 to 6 inches is persistent in the middle of the seam, which makes mining rather difficult. An average of 30 persons are employed in the mine.

Ample ventilation is produced by a 12 foot fan. Roof is good, drainage deficient. Haulage is done by mules.

O. N. MOOMAW, Supt.

J. W. SHREWSBURY, Mine Foreman.

HIAWATHA COAL & COKE COMPANY.

Series No. 1050. *Hiawatha Mine*.—This mine is located on the Widemouth branch at Hiawatha station. It is a drift opening operating the No. 3 Pocahontas seam which is 4 ft., 8 inches thick here. Ventilation is produced by a 14 ft. fan and is in two separate splits well distributed to the face of the workings. 80 persons are employed in the mine producing an average output of 400 tons daily. Haulage is done by a steam locomotive, but preparation is being made for electric haulage; roof is good; drainage good; the mining law is observed.

O. N. MOOMAW, Supt.

W. M. NUNN, Mine Foreman.

SPRING COAL MINING COMPANY.

Series No. 1051. *Spring Mine*.—Is located on the Widemouth branch at Springton. It is a drift opening operating the No. 3 Pocahontas seam. It is ventilated by a 16 ft. fan. The air current is in two splits, fairly well distributed. One hundred and eighteen persons are engaged inside the mine. The output is about 400 tons daily. The average height of seam is 4 ft., 4 inches. Haulage is done by steam locomotive. Roof is generally good. No improvement worthy of note has been made since the last annual report except in splitting the air current.

M. G. SAUNDERS, Supt.

H. H. HONAKER, Mine Foreman.

WONONAH COAL & COKE COMPANY.

Series No. 1052. *Wenonah Nos. 1 & 2 Mines*.—These are drift openings into the same lease located at the head of the Widemouth Branch. They are operating the No. 3 Pocahontas seam, which is here 4 ft. thick. A 16 ft. fan supplies an abundant ventilation, which is well distributed to the face of the workings. Forty-seven persons are employed in the mine, and the average daily output is 300 tons; Haulage is done by electric motors. Roof is good generally; Drainage deficient.

E. L. HARRIS, Supt.

ED. LUCAS, Mine Foreman.

ELEVENTH DISTRICT.

GENERAL SUMMARY OF THE ELEVENTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYEES.								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
M'Dwl (prt)	99 47		3,903	1,036	206	2,389	7,534	1,114	1,518	2,624	10,158	6,854,877	1,349,659
Totals..	99 47		3,903	1,036	206	2,389	7,534	1,114	1,518	2,624	10,158	6,854,877	1,349,659

Bluefield, West Virginia, July 3, 1909.

HONORABLE JOHN LAING,

Chief Department of Mines,

Charleston, West Virginia.

DEAR SIR:—

I have the honor to submit herewith my first Annual Report as Inspector of Mines of the 11th District, dating from the time of my appointment January 4th, 1909 and ending June 30th, 1909.

The number of inspections being 92. Number of extra visits to mines pertaining to fatal accidents, and ventilation—38. Number of openings not in operation owing to the depression in coal business, five. New mines opening in this District, eight.

I take pleasure in stating that I have received very courteous treatment, and the co-operation of both Operators and Mine Officials, while on my duty during the part of term I have served, for which I desire to publicly extend my thanks.

I have made every effort possible to visit and inspect all mines in the District as often as my time would permit. In mines where I had an occasion to call the attention to the ventilation and other defects, the mine Officials have always been willing to remedy them within a reasonable length of time, so in no case was it necessary to bring prosecutions as to better the ventilation and other defects that were found. I find the greatest difficulty is in getting the ventilation properly distributed and

conducted to faces of all workings. The distribution of the air lies mostly to the Mine Foreman in charge, and should be more closely looked after. If this is done the sanitary conditions of the mines throughout the coal fields would be much better.

I am pleased to state that throughout this district overcasts are being constructed in general, and the necessary splits are being made to comply with the Mine Laws.

It is also gratifying to know that steam locomotives are being abandoned rapidly in this field.

Before this issue is put before the public, there will be only two companies of the 11th District that are using steam locomotives. These being Mohawk Coal and Coke Company, at Mohawk, and Turkey Gap Coal and Coke Company, at Ennis.

The Powhatan Coal and Coke Company has used steam locomotives for years, but has abandoned them and replaced by electric motors, and the results are excellent.

Section 13 of the Mining Law reads: "It shall be unlawful in all Mines where gas is generated in dangerous quantities to use any other mechanical power for ventilating purposes except fan power," it should also read that the fans that are installed for ventilating purposes at mines where gas is generated or not, should be so constructed as to reverse the air current in case of an emergency, and should be in operation both day and night.

Where gas is liberated or not, Fire Bosses should be employed to see that the working faces are in a safe and proper condition, and to inspect all old workings and old falls in case the liberated gas may have accumulated from the falls which may occur.

The mines in this District where no gas has been detected, yet in drawing the pillars considerable gas may be liberated from the fall, and in this case, such mines would be considered safe to-day or to-morrow may be one of the most dangerous mines we have in the state. These dangers were thoroughly demonstrated in the Turkey Gap Mine on June 3rd, which is shown on their report in this issue.

ACCIDENTS.

I am sorry to say that the fatal accidents in the 11th District are very numerous, of which I have kept no record. These accidents are due to the foreign laborers, as they are totally ignorant of the dangers they have to encounter in the coal mines. The greatest portion of these accidents are caused where miners are starting a break-through, or turning a new room. They do not use the necessary precaution, and especially in the lower end of the Elkhorn Field, where they have from 6 inches to 2 feet of drawn slate which lies very loose above the coal at times, and as soon as the miner commences to undercut his coal it is very likely to fall, unless great care is taken by the miners to avoid an accident. All through the Elkhorn field there is another dangerous proposition what we term the "Kettle Bottom," which is very hard to detect even with the most practical men. The miners or laborers in any mine may be testing

the roof, and it may seem absolutely solid, and nothing to observe, yet the slightest jar relieves the Kettle Bottom and it falls, which has been the case repeatedly in this district.

Another danger the miners in the Pocahontas Field have to contend with, and which also increases the number of fatal and non-fatal accidents in this field, is the invisible slips, which run in this coal with no regularity. The miner may have his undercut nearly finished, and the coal may sound perfectly solid, and the next minute it may fall without the least warning, if it is not properly spragged as it ought to be. Too much attention cannot be paid by the Superintendent, Mine Foreman and all other Assistants as to instructing the miners of the necessity of keeping all undercuts well spragged no matter how solid they may sound, also see that the men have the material to do it with.

More energy should be put forth by the Superintendent, Mine Foremen and all other assistants throughout this district to reduce the number of fatal and non-fatal accidents. Several serious and non-serious accidents have occurred in this district owing to the way the impractical miners use the explosives. In several cases men have been burned while filling the cartridges, and others have been burned by mis-shots, some by going back on the shots too soon, and we have had some narrow escapes with shots being blown out with black powder.

The Mine Department has issued instructions to all Operators pertaining to shot inspectors, black powder, blasting and other dangers pertaining to blasting, which goes into effect July 15th, 1909, and will reduce the danger which now confronts the mining industry.

I wish to publicly state the method and system on which the United States Coal and Coke Company is operated, which I consider one of the best in the field. With the number of employes they employ, the accidents are very limited.

The standard of ventilation of the United States Coal & Coke Company's mine is that not less than 10,000 cubic feet of air per minute must be passing through the last cross-cuts in each pair of headings, no allowance being made for the anemometer, and one sixth of the velocity as shown being subtracted on account of the anemometer being held in the center of the heading. Canvas check doors are hung across the heading at every fourth room for the purpose of keeping the ventilating current traveling through the face of the rooms. Cross-cuts between the rooms are bratticed where required. Each Assistant Mine Foreman is supplied with a Pieler testing lamp, which burns wood alcohol, so that he may detect the smallest percentage of gas which might exist in the atmosphere of the mines. Samples of the air current passing through the different portions of the mines are taken periodically with special constructed apparatus, and are analyzed in the laboratory of the Company in the main office, for the purpose of detecting any smaller percentages of explosive gas, which cannot be detected by the use of testing lamps. Tests of the amount of dust carried by the air currents are also taken at stated periods.

Each working place in all the mines is examined every morning for bad roof, explosive gas, or any dangers which might exist, before the

workmen are allowed to enter. Each workman is visited in his working place by the assistant mine foreman once every two hours during the day. The number of assistant mine foremen employed is regulated by the number of men employed in the mine, no assistant being permitted to have more than 25 to 30 men in his charge.

The assistant mine foreman of any mine receives a premium of \$5.00 per month when no serious or fatal accident occurs in that mine during that month. Each mine foreman receives a premium of \$10.00 per month when no serious or fatal accidents take place at any of the twelve mines of the company. All serious or fatal accidents are reported to the main office by telephone immediately upon their occurrence, and a notice of the same is immediately issued and posted at the entrance of each mine, drawing the attention of the officials and miners to the accident, stating how it occurred, and warning them to be careful. All accident reports carry the name of the official immediately in charge of the section in which the accident occurs, and any official whose name appears too frequently on the monthly accident report is served with a notice of the same, and there have been cases where they have been discharged, the management considering that they were neglectful, or they would not have permitted so many accidents to occur.

The mines are all equipped with steel fans encased in steel casing, concrete foundations and connected with the mine entrance by concrete arches, said fans being of the latest design and each is capable of furnishing from 200,000 to 400,000 cubic feet of air per minute. The fan at the shaft mine is driven by steam, while the other thirteen are driven by electricity and directly connected to 300 horse power induction motors.

All main roadways in all mines are laid with 60 lb. steel, the flat headings with 40 lb., and the room headings with 30 lb. steel, while in the rooms 20 lb. steel is used. There are two feet of clearance between each side of the mine cars and the rib on all hauling roads throughout the mines. Man or refuge holes are cut in the sides of the headings, excepting room, headings 80 feet apart. The same are kept whitewashed, and the heading for five or six feet on each side of the man hole and the roof of the heading at the manholes are also whitewashed, so that they can be easily seen, and travelers on the heading will have no trouble getting out of the way of ingoing or outcoming trips.

No timbering is done on the hauling or traveling ways. Where the roof is bad the same is taken down and hauled to the outside or stored in the mines, and no dirt, slate, or rubbish is permitted to be strewn along the traveling ways or haulways.

Electric lights are placed at all cross headings. The electrical wiring is examined at all the plants monthly, by the electrical superintendent. All overcasts and stoppings are built of concrete or other non-bustible material.

Rules are posted in the different languages at the different mine entrances, defining the duties of the different employes, etc., which are signed by the president and secretary of the company, states in Rule number one that "It shall be the duty of each employe of this company to comply with the Mining Laws of this State."

In any place where explosive gas transpires from the coal or any place where it is likely that the advance workings will liberate gas, blasting is done by permissible powder that has passed the testing station at Pittsburgh, which powder is sold to the miners approximately at cost. The means of firing the explosives such as detonators, caps, fuses, etc., are furnished to the miners free of charge. The assistant mine foreman carries the squibs, caps, etc., with him when making his rounds during the day and they are furnished to the miner after the inspection of his hole, a thorough examination of his place, the amount of powder he proposes to use, etc. Where black powder is used it is issued to the miners in five pound canisters, the canisters belonging to the company.

It is also the duty of the assistant mine foreman to see that the timber is set where they think it is necessary, and it is not left to the judgment of the miner as to whether timber is necessary or not. The miner is not permitted to take the risks he would take if left to his own volition.

The Company employs two mine inspectors who visit the mines weekly, and make a thorough examination of the same to see that all rules and regulations as laid down are followed.

Air measurements are made weekly by the mine foreman and checked monthly by the Inspector.

An Emergency Hospital equipped with the latest improved instruments, and operating table, with the usual means of sanitation, two doctors in attendance, is established at Gary, for the purpose of giving efficient and immediate relief to any workmen who may be injured at any of the plants, and put him in the best possible condition for their removal to the State Hospital at Welch.

The sanitary and general condition of the town are well looked after, and a prize is paid yearly to the superintendent and outside foreman of the operation, which has the streets, alleys, and the town in general, the cleanest.

There are also six premiums paid to the householders for the best gardens, the neatest appearance of the yard, etc.

The central power plant which is located at Gary contains nine boilers of approximately 3800 horse power capacity, and has six electric units with a combined capacity of about 4300 Kilowatts. Two of the units are driven by cross compound Harrisburg engines, two are driven by cross compound Allis-Chalmers Corliss valve engines, and the other two are driven by Westinghouse turbines, one of which is a low pressure turbine and is operated by the exhaust steam from the reciprocating engines. They also have cooling towers for cooling the water that condenses the steam. This is the only plant in the United States in which the reciprocating engines, the high pressure turbines, the low pressure turbines with the cooling towers are all combined in the one plant.

In conclusion, I wish to thank the head of the Department for the assistance which has been rendered me during my term as Inspector of the 11th District.

Yours very truly,

WM. NICHOLSON,
11th District Mine Inspector.

CONDITION OF THE MINES IN THE ELEVENTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz: 1118 indicates the Eleventh District and number 18 mine.

McDOWELL COUNTY.

MOHAWK COAL & COKE COMPANY.

Series No. 1101. *Mohawk Mine*.—This mine is located on the Tug River, thirty-three miles west of Welch on the main line of the Norfolk & Western Railway. Ventilation is produced by an exhaust fan. The in-take being at the extreme end of the mine which is also used for the second opening, and makes the ventilation very good at all working places. Steam locomotives are used for haulage, which is strictly on the return air. All coal is cut by air machines. Drainage only fair. Oil used for illuminating purposes good. Safety lamps, stretchers, blankets and anemometer are kept at the mine as required by law. The sanitary conditions of the mine I consider good.

WILLIAM T. HETHERMAN, Supt.

KENNA HETHERMAN,

Mine Foreman.

NEW RIVER & POCAHONTAS CONSOLIDATED COAL COMPANY.

Series No. 1102 & 1103. *Nos. 1 & 1½ Mines*.—These mines are located on branch line of the Norfolk & Western Railway, fifty miles southwest of Welch, working the Pocahontas No. 3 Seam. Ventilation is produced by a 15 ft. fan, 73 revolutions per minute, and giving 83,000 cubic ft of air. Ventilation is very good all through the mines. All stoppings of the main entry and cross entry are built of concrete. Overcasts are used. There are no doors in these mines, except check doors, which are used for ventilating the rooms. All coal is cut by electric machines. Haulage is done by electricity using no mules in the mines. Some parts of these mines are very dusty especially in the rooms. Notices are posted as required by law. Safety lamps, blankets, stretchers and anemometer are on hands. Maps have been furnished this office up to date. Mine Foreman records properly filled out. Second opening meets the requirements of law. Voltage of the mines is 250.

JAMES GOULD Supt.

W. H. BAKER Mine Foreman.

Series No. 1104. *No. 2 Mine*.—This mine is ventilated by a 12 ft. fan, and is able to produce 200,000 cubic feet of air per minute. All stoppings are built of concrete, and overcasts are used at each cross entry. Each entry has a separate current of its own. Coal is cut by electric machines. All machine cuttings are thrown back and not loaded out. Shot-firers are used. All shots are fired by batteries. Main entry of this mine is giving off considerable amount of gas. Mixed oil is used. Second opening meets the requirements of the law. All other equipment as pertaining

to the law is kept on hand at the mines. This mine with the present equipment is capable of producing 500 tons per day.

JAMES GOULD, Supt.

G. E. WHITTAKER, Mine Foreman.

L. A. CUNNINGHAM, Fire Boss.

Series No. 1105. *No. 3 Mine.*—This mine is ventilated by a 9 ft. fan, and is able to produce 75,000 cubic ft. of air per minute. Ventilation very good throughout the mine. All stoppings of main entry are built of concrete. All cross entries have overcasts. No explosive gas was found in this mine. Roof very good. Some kerosene oil used. All coal is cut by machines. Machine cuttings thrown back and not loaded out. All equipment required by law is on hand, and all records properly filled out.

JAMES GOULD, Supt.

C. H. RHODES, Mine Foreman.

HALL MINING COMPANY.

Series No. 1107. *Yukon No. 2 Mine.*—This mine is located on a branch line of the Norfolk & Western Railroad, forty-four miles southwest of Welch, working the coal seam known as War. Ventilation in this mine is produced by furnace. The air at the working faces is very insufficient. Most of this coal is shot from the solid with black powder. This mine is very dry at the working faces. The powder is taken into the mine in 5 lb. metallic canisters, as required by law. Break-throughs are driven at the proper distance. At the time of this inspection, the main entry was 250 ft. from the drift, and only had been operating a short while. No mine foreman record books on hand. No safety lamps, stretchers or blankets as required by law. A second opening was nearly completed. This mine with its present equipment is able to produce 75 tons per day.

H. M. MEYERS, Supt.

P. C. CORDLE, Mine Foreman.

Series No. 1108. *Yukon No. 1 Mine.*—Ventilation in this mine is produced by a 10 ft. fan, and is able to produce 45,000 cubic feet of air per minute. The ventilation at the working faces is very good. All stoppings in this mine are built of wood. All coal is shot from the solid with black powder. Only a part of the men using the permissible explosive. This mine is very wet throughout. Safety lamps, stretchers and blankets on hand as required by law. This mine with its present equipment is able to produce 200 tons per day.

H. M. MEYERS, Supt.

P. C. CORDLE, Mine Foreman

DRY FORK COLLIERIES COMPANY.

Series No. 1109. *William Mine.*—This mine is located on a branch line of the N. & W. Railway, forty miles southwest of Welch, working the coal known as the War Seam. Ventilation in this mine is produced by a 60 inch Sirocco fan, and is giving 45,000 cubic feet of air per minute, which is ample ventilation for this mine. This mine is driven on a double entry system. All stoppings in the main entry are built of concrete. Over-

casts are used. The air is split according to law. The coal in this mine is shot from the solid with shot-firers, all shooting is done at night.

The dust is properly watered down. No gas was observed. I consider the sanitary condition of this mine very good. All equipment required by law is furnished at the mines, and all records properly kept.

W. N. ROBINSON, Supt.

ELZA BLANTON, Mine Foreman.

FLAT-TOP COAL MINING COMPANY.

Series No. 1110. *Thomas Mine*.—This mine is located on a branch line of the N. & W. Railway, thirty-eight miles southwest of Welch, working coal known as the War seam. Ventilation in this mine is produced by a fan which is ample ventilation for this mine. Coal is 3 1-2 ft. thick with sand rock roof. It is very wet all through. No explosive gases liberated at the time of inspection. All coal properly mined and shot. Mine maps are furnished this office up to date. Mine Foreman records properly filled out. Stretchers, safety lamps and blankets on hand as required by law, also notices posted as required.

JAMES THOMAS, Supt.

JAMES THOMAS, Mine Foreman.

HURRICANE BRANCH COAL COMPANY.

Series No. 1111. *Huffer Mine*.—This mine is located on a branch line of the N. & W. Railway, nine miles from Iaeger, working the coal known as the Welch seam. This is a new mine. Ventilation is produced by a furnace, and is bad. The doors and stoppings are of very poor quality. All entries very low. Second opening did not meet the requirements of law. Oil used is of a fair quality. This mine from general observation was not getting the attention it ought to have by the foreman in charge. Recommendations were furnished by the Inspector for this mine.

D. C. TURPIN, Supt.

D. C. TURPIN, Mine Foreman.

HENRIETTA COAL COMPANY.

Henrietta Mine.—This mine is located on a branch line of the N. & W. Railway, thirty-six miles southwest of Welch, working the coal known as the Welch Seam. This is a new mine. Ventilation is produced by furnace which is very poor. Timbering is fairly good. At the time of inspection, the second opening did not meet the requirements of law. Coal is shot from the solid with black powder. Stoppings, brattice and doors were only fair. Considerable dust which apparently was neglected, not watered down. No notices were posted as required by law, and no foreman's record kept.

A. Z. LITZ, Supt.

M. A. HARLEY, Mine Foreman.

VIRGINIA-POCAHONTAS COAL COMPANY.

Series No. 1112. *No. 1 Mine*.—This mine is located on a branch line known as the West Va. South Western on Clear Fork, thirty-five miles

southwest of Welch. Ventilation is produced by a fan, and is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. All break-throughs are driven at the required distance. Drainage generally good throughout the mine. All loose rock is taken down where men travel. Coal dust is properly watered down, and miners are well supplied with posts. The second opening meets the requirements of the law. Oil used is of a fair quality. Powder is carried into the mine in 5 lb. Metallic Canisters. Stretchers and blankets are kept on hand, and all records are properly filled out.

JOHN STEWART, Gen'l Supt.

W. E. ALLEN, Mine Supt.

JOHN PEIL, Mine Foreman.

Series No. 1113. *East & West No. 2 Mine.*—Ventilation in this mine is produced by a 6 ft. fan which gives ample air for the size of the mine. Drainage is very good. The second opening meets the requirements of the law. Oil used is of a fair quality. All dust is properly watered down. Maps are furnished this office up to date. All records of mine foreman are properly kept, and all other necessary supplies as required by law.

JOHN STEWART, Gen'l Supt.

W. E. ALLEN, Mine Supt.

WILLIAM FARNE, Mine Foreman.

Series No. 1114. *Nos. 1, 2 & 3 Mines.*—Ventilation in this seam is produced by a fan and is well distributed to the working faces. Drainage generally good throughout the mines. Powder is carried into the mines in 5 lb. metallic canisters. All dust is properly watered down. Miners are well supplied with timber and posts. The second opening meets the requirements of the law. All other equipment as required by law on hands. All records properly filled out. No. 1 mine had not been working for sometime, owing to the depression in coal business.

JOHN STEWART, Gen. Supt.

W. P. FEMEY, Mine Foreman.

Series No. 1115. *No. 4 Mine.*—Ventilation in this mine is produced by a 7 ft. fan, which is giving 60,000 cubic ft. of air per minute which is well distributed to the working faces. Stoppings of the main entry are built of concrete, and all break-throughs are driven at the required distance. Drainage generally good. All loose rock is taken down where men travel. The second opening meets the requirements of the law. All miners were well supplied with posts, and all other supplies as required by law on hand.

JOHN STEWART, Gen. Supt.

J. W. RATCLIFFE, Mine Foreman.

W. E. ALLEN, Mine Supt.

Series No. 1116. *No. 5 Mine.*—This mine is located on a branch line of the N. & W. Railway on Dry Fork, forty-two miles south-west of Welch. This is a slope of 170 feet, working coal known as the War Creek seam. This mine is ventilated by an 8 ft. Thayer fan, which is producing 42,000 cubic ft. of air per minute, which is ample air for this mine. The air is

well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete, and the proper splits of the air current as required by law. All break-throughs are driven at the proper distance. Drainage generally good throughout the mines. Electric appliances are used throughout this mine for hauling purposes. All coal dust is properly watered down. Miners were well supplied with timber and posts. This second opening meets the requirements of the law. The oil used is of a fair quality. All supplies as required by law on hands, also foreman records properly filled out.

JOHN STEWART, Supt.

JOHN CLARKE, Mine Foreman.

PREMIER-POCAHONTAS COLLIERIES COMPANY.

Series No. 1117. *No. 1 Mine.*—This mine is located on a branch line of the N. & W. Railway on Spruce Creek, eight miles from Roderfield, working coal known as the Welch seam. This is a new mine. Ventilation in this mine is produced by furnace, which gives ample ventilation for the present. Preparations were being made to install a fan. All stoppings are built of wood, and considerable shooting is done on the solid. Drainage only fair. All break-throughs are driven at the required distance. Powder is carried into this mine in 5 lb. metallic canisters. The oil used is of a fair quality. All supplies as required by law are on hands..

J. C. SANDERS, Supt.

T. N. DAUGHERTY, Mine Foreman.

Series No. 1117a. *No. 2 Mine.*—This is a new mine, ventilated by furnace which is ample ventilation at the present. Preparations were being made to install a fan at these works. Part of this mine is very dry. Some coal is shot from the solid with black powder. All loose rock is taken down where men travel. Miners are well supplied with posts and caps. All supplies as required by law are on hands. The oil used is of a fair quality..

J. C. SANDERS, Supt.

T. N. DAUGHERTY, Mine Foreman.

Series No. 1117b. *No. 3 Mine.*—This is a new mine, working coal known as the Welch seam. Ventilation in this mine is produced by furnace; preparations were being made to install a fan. All break-throughs were driven at the proper distance as required by law. Miners were well supplied with posts and caps. All supplies as required by law on hands.

J. C. SANDERS, Supt.

T. N. DAUGHERTY, Mine Foreman.

VAUGHAN COAL AND COKE COMPANY.

Series No. 1118. *Vaughan Mine.*—This mine is located on the main line of the Norfolk and Western Railway, fourteen miles west of Welch. The ventilation of this mine is produced by a fan, and is properly distributed to the working faces. Check doors were needed to ventilate the rooms. Stoppings were built of a fair quality. All break-throughs are driven at the required distance. Drainage is generally good. Powder is

carried into the mine in 5 lb. metallic canisters. Second opening meets requirements of the law.

R. M. PECK, Supt.

R. H. GILLEY, Mine Foreman.

BIG SANDY COAL AND COKE COMPANY.

Series No. 1119. *Big Sandy Mine.*—This mine is located on the main line of the N. & W. Railway thirteen miles west of Welch. It is ventilated by two fans. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. An extra force of men are employed putting in concrete stoppings along the main entry. All break-throughs are driven the required distance. Drainage generally good throughout the mines. Refuge holes in the main entry where men travel are at the proper distances, and are kept clean and whitewashed; all dust is properly watered down. Miners are well supplied with props and caps. The second opening meets the requirements of the law. Oil used is of a good quality. All supplies as required by law on hands, and all records properly filled out.

W. McFARLAND, Supt.

W. A. LILLY, Mine Foreman.

Series No. 1120. *Marytown Mine.*—Ventilation in this mine is produced by an eight foot Thayer fan. The distribution of the air is very weak at the working faces. The stoppings in the main entry are built of masonry. No overcasts are used, and more than the required number of men are working on this current. Break-throughs are driven at the required distance. Drainage is generally good throughout the mines. Refuge holes where men travel are at the proper distance and are properly whitewashed. All loose rock is taken down where men travel. Powder is carried into the mines in 5 lb. metallic canisters. Coal dust is properly watered down. Mines are well supplied with props and caps. The second opening meets the requirements of the law. The oil used is of a good quality. Notices are posted in the mines, and men who are employed are given a copy of the Mining Laws before they are allowed to work. All other requirements as to law are on hands. Mine foreman's records are properly kept.

WILLIAM McFARLAND, Supt.

A. G. SHORT, Mine Foreman.

J. B. B. COLLIERIES COMPANY.

Series No. 1121. *Hensley No. 3.*—This mine is located on the main line of the N. & W. Railway, twelve miles west of Welch. This mine is ventilated by an exhaust fan, which gives fairly good ventilation except in some places they are driven beyond the 80 ft. limit. Break-throughs in this mine are neglected. Drainage generally good. Refuge holes where men travel are not properly whitewashed and kept clear of obstruction. Coal is hauled from the side tracks by electricity, using 500 volts which is very dangerous in a thin seam of coal. No torch was used on rear end of motor trips. Powder is carried into this mine in 5 lb. metallic canisters. Mine is very moist. Miners well supplied with props and

caps. The second opening meets with the requirements of the law. Stretchers, blankets and mine foreman's records are on hands, and properly filled out.

D. M. WOODY, Supt.

K. L. BROGAN, Mine Foreman.

Series No. 1122. *Hensley No. 2*.—This mine is ventilated by a fan and ventilation is very good. Drainage poor. All break-throughs are driven at the proper distance. Powder is carried into the mines in 5 lb. metallic canisters. Miners are well supplied with props and caps. Oil used is of a fair quality. All other supplies, as required by law, are on hands.

D. M. WOODY, Supt.

K. L. BROGAN, Mine Foreman.

TWIN BRANCH MINING COMPANY.

Series No. 1123. *Twin Branch Mine*.—This mine is located on the main line of the Norfolk & Western Railway, ten miles west of Welch, and is ventilated by a 12 ft. fan, and the air is well distributed to the working faces. Main entry stoppings are made of concrete. The air current is split as required by law. All break-throughs are driven the required distance. Drainage generally good throughout the mines. All loose rock is taken down where men travel. Check doors are used to ventilate the rooms. Powder is carried into the mines in 5 lb. metallic canisters. All coal dust is properly watered down. Miners are well supplied with props and caps. Coal is hauled from side tracks by electricity using 500 volts, which is very dangerous where men travel. The second opening meets the requirements of the law. The oil used is of a good quality. All supplies, as required by law, are on hands.

D. M. WOODY, Supt.

C. P. WOODY, Mine Foreman.

MAHER COAL & COKE COMPANY.

Series No. 1124. *Maher No. 1 Mine*.—This mine is ventilated by an 8 ft. Stein fan, which is capable of giving 55,000 cubic feet of air per minute. The ventilation in this mine is very weak at the working faces. Break-throughs are driven at the proper distance. Drainage generally good throughout the mines. Refuge holes where men travel are not in proper condition. Electricity is used for hauling purposes, and compressed air machines are used for cutting coal. Only ten pick miners used in the mines. Powder is carried into the mines in 5 lb. metallic canisters. The second opening meets the requirements of the law. Miners are well supplied with posts and caps. Oil used is of a fair quality, and all other supplies, as required by law, on hands.

D. M. WOODY, Supt.

J. B. LACY, Mine Foreman.

J. B. B. COLLIERIES COMPANY.

Series No. 1125. *J. B. B. No. 2 Mine*.—The ventilation in this mine is produced by an eight ft. fan. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stop-

pings are built of masonry. Break-throughs are driven the required distance. Drainage generally good throughout the mines. Refuge holes where men travel are in fair condition. Powder is carried into this mine in 5 lb. metallic canisters. Coal dust is properly watered down. Miners are well supplied with posts and caps. The second opening meets the requirements of the law. Electricity is used for hauling with 500 volts, which is very dangerous where men travel. Compressed air is used for cutting coal. This office is furnished with maps up to date. Mine foreman's record is properly kept. Stretchers, blankets and safety lamps are on hands.

D. M. WOODY, Supt.

M. J. BROGAN, Mine Foreman.

SUPERIOR-POCAHONTAS COAL COMPANY.

Series No. 1129. *Superior No. 2 Mine.*—This mine is located on Big Davy Run on short branch of the N. & W. Railway. Ventilation is produced by a fan and furnace. Drainage in this mine only fair. Doors and brattice were built of very poor material, allowing one-half of the air to leak and be wasted. Electric wires were in a very poor condition, and very low on side using 500 volts, which makes it exceedingly dangerous where men travel. Miners were well supplied with posts and caps. Stretchers, blankets and safety lamps were on hands as the law requires. Mine foreman's records were properly filled out.

M. J. RILEY, Mine Supt.

JOHN MATNEY, Mine Foreman.

Series No. 1130-1131. *Helena Mine.*—This is a drift opening. Ventilation is produced by a 6 ft. fan and the ventilation in the working faces are very poor. Stoppings, doors and brattice are very poor. Drainage good. Break-throughs were driven at the required distance. All loose rock taken down where men travel. Powder is carried into the mines in 5 lb. metallic canisters. The second opening meets the requirements of the law. All other necessary supplies as required by law on hands.

M. J. RILEY, Mine Supt.

JOHN BERKELEY, Mine Foreman.

Series Nos. 1132-1133. *Blackstone Nos 1 & 2 Mine.*—Ventilation in these mines is produced by a fan and is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete and rock. The air current is split as required by law. All break-throughs are driven at the required distance. Drainage good throughout the mines. Refuge holes where men travel are at the proper distance and are kept whitewashed. Powder is carried into these mines in 5 lb. metallic canisters. Oil used for illuminating purposes is fairly good. No coal dust was observed in these mines. Second opening meets the requirements of the law. All other necessary supplies, as required by law are on hands. Mine foreman's record properly filled out.

M. J. RILEY, Supt.

PETER DRIMER, Mine Foreman.

Series No. 1134. *Davy Crockett Mine.*—This mine is located on the main line of the N. & W. Railway, at Davy. It is a drift opening, and has nat-

ural ventilation which is sufficient for the men employed. This mine is on the retreat, and will only last a few months.

M. J. RILEY, Mine Supt.

JOHN MATNEY, Mine Foreman.

PANDO COAL COMPANY.

Series Nos. 1135-1136. *Pando Nos. 1 & 2 Mines.*—These mines are located on the main line of the N. & W. Railway seven miles west of Welch, working coal known as the No. 6 and 7 Pocahontas seam. No. 2 mine is ventilated by a fan, which is giving very good results. Break-throughs are driven at the required distance. All stoppings, brattice and doors were very poor. While making inspection of mine No. 1, I found that the fan had not been running for several weeks, and there was no air in circulation in this mine. I was compelled to have all the men withdraw at once until the fan was put into operation. This fan is some distance in the mine, and is installed in a very wet place. Mine officials claim they could not keep the belt on so as to keep the fan in operation, so I had them remove the fan to the outside, which, at present, is giving very good results. The miners were well supplied with posts and all other necessary supplies, as required by law, are on hands.

F. M. COOK, Supt.

U. S. YOST, Mine Foreman.

ATLAS-POCAHONTAS COAL COMPANY.

Series Nos. 1137-1138. *Antler Nos. 3 & 4 Mines.*—These mines are located on the main line of the N. & W. Railway seven miles west of Welch. Ventilation is produced by an 8 ft. fan, and the air is well distributed to the working faces. All break-throughs were driven at the proper distance. Drainage generally good. Doors, brattice and stoppings were of a fair quality. All loose rock was taken down where men travel. Second opening meets the requirements of the law. Oil used for illuminating purposes, was of a fair quality. All other necessary supplies as required by law on hands. Mine Foreman's Record properly filled out.

JAMES HENCHEY, Supt.

HOY SHEPPARD, Mine Foreman.

OREGON COAL COMPANY.

Series No. 1139. *Imo No. 1 Mine.*—This mine is located on a branch line of the N. & W. Railway one mile from Welch, working coal known as the Welch seam. Ventilation is produced by a fan 15 ft. in diameter, which is giving very good results. Drainage in this mine is only fair. Considerable loose slate is hanging where men travel. Break-throughs are driven as required by law. Powder is carried into this mine in 5 lb. metallic cans. The second opening meets the requirements of the law. All other necessary supplies as required by law on hands. Mine foreman's records were properly filled out.

C. W. PETERS, Supt.

J. G. KIRBY, Mine Foreman.

Series Nos. 1139a. *Imo No. 3 Mine.*—This is a new mine located one

mile west of Welch and is working the Welch seam; The thickness of this coal is 4 to 4 1-2 ft. Roof is very good. This mine is developed on the double entry system. The coal is cut by machines. Ventilation is produced by a 12 ft. fan, and is very well distributed to the working faces. All break-throughs are driven at the required distance. Drainage generally good throughout this mine. Brattice and doors fair. All powder is carried into this mine in 5 lb. metallic canisters. At the time of this inspection, the mine was very moist and no dust was observed. Miners were well supplied with posts and caps. The second opening meets the requirements of the law. Oil used is of a fair quality. Stretchers, blankets and all other necessary supplies, as required by law are kept on hands. Mine foreman's records properly filled out.

C. W. PETERS, Supt.

J. D. KIRBY, Mine Foreman.

Series Nos. 1140. *McClaren No. 2 Mine*.—This mine is located on the main line of the N. & W. Railway one mile west of Welch. Ventilation is produced by a 12 ft. fan, which gives ample air, and properly distributed. Drainage is not very good. Break-throughs were driven at the required distance. Stoppings very poor. Considerable loose slate was observed in entries where men travel. Powder was carried into this mine in 5 lb. metallic canisters. Miners were well supplied with posts. The second opening meets the requirements of the law. Oil used is of a fair quality. All other necessary supplies, as required by law, are kept on hand.

C. W. PETERS, Supt.

J. D. KIRBY, Mine Foreman.

SLICK ROCK COAL COMPANY.

Series No. 1141. *Slick Rock Mine*.—This mine is located on the main line of the N. & W. Railway, one-half mile west of Welch. Ventilation in this mine is produced by furnace which is very insufficient, as in several places in this mine it is impossible to get any air measurements. The inspector requested the Company to install a fan at once, which was promptly done. Drainage is generally good. Break-throughs are driven at the required distance. Stoppings at the main entry are built of wood. Powder is carried into the mine in 5 lb. metallic canisters. No dust was observed in this mine, as it was in a very moist condition. All oil used was of a fair quality. Mine foreman's records were properly filled out. All other necessary supplies as required by law on hands.

J. E. JONES, Supt.

J. E. JONES, Mine Foreman.

JED COAL AND COKE COMPANY.

Series No. 1142. *Jed Mine*.—This is a shaft mine, and is located on a branch line of the Norfolk & Western Railway, two miles from Welch. Ventilation is produced by an 8 ft. Giall fan. The air is well distributed to the working faces. Brattice cloth is used to ventilate the rooms and entries beyond the last cross cut. This mine is very wet, also generates considerable gas in dangerous quantities. All break-throughs are

driven at the required distance. The roof in this mine is very bad, but is well taken care of by the mine officials. Part of the coal in this mine is cut by machines. Safety powder is used all through the mines for blasting purposes. No dust was observed in this mine. The miners are well supplied with timbers, posts and caps. The second opening meets the requirements of the law. Kerosene oil was used in general. Notices were posted on the outside. All miners who are given employment are handed a copy of the Mining Laws. All other supplies as required by law on hands. Mine foreman and fire boss records are properly kept.

WILLIAM LECKIE, Supt.

D. R. DAVIS, Mine Foreman.

WM. STOCKDALE, Fire Boss.

UNITED STATES COAL & COKE COMPANY.

Series No. 1143. *Grapevine No. 1 Mine.*—This is a shaft mine, located 5 miles from Welch on a branch line of the N. & W. Railway, and operates the No. 3 Pocahontas seam, also the No. 4 seam, is open but not in operation. Ventilation is produced by a 20 ft. fan, which is capable of giving 350,000 cubic feet of air per minute. This mine is developed in the four entry system. Two intakes and two returns. Drainage is generally good throughout the mines. Considerable gas generates in this mine but is well taken care of. All coal in this mine is undercut by machines (electric) and hauled by electric motors. All entries have a two ft. clearance on each side of the cars. No timber is allowed to be set in main entries, and any slate that is loose or dangerous they are compelled to take down and remove to the outside or store same in the mines. The refuge holes where men travel in the main hallway are at the proper distance required by law, and are kept clear of any refuse also whitewashed. All coal in this mine is shot with the permissible explosives known as masurite. All coal dust is kept properly watered down. As to dangerous practices, none observed. Miners are well supplied with timbers, posts and caps. This second opening meets the requirements of the law. The oil used is of a fair quality. All other supplies as required by law on hands. Mine foreman and fire boss records properly filled out.

FRANK KING, Supt.

JOHN LANGTON, Mine Foreman.

LAWRENCE WILEY, Fire Boss.

WILL ABBOTT, Fire Boss.

Series No. 1144. *Mine No. 2.*—This mine is located on a branch line of the N. & W. Railway, sixteen miles from Welch. It is a slope opening operating the No. 4 seam. Ventilation is produced by a 20 ft. Capell fan which is able to give 350,000 cubic ft. of air per minute. Drainage in this mine is generally good throughout. This mine is developed in the four entry system with two intakes and two returns, and both are kept absolutely clear of all refuse that might accumulate. The ventilation of this mine is well distributed to the working faces. Check doors being used in every four rooms so as to ventilate the rooms properly. Concrete overcasts are used in general all through this mine to make the proper splits in the air current as required by law. All break-throughs are properly

driven at the required distances. Refuge holes in the main entries are at the proper distance and kept clear of all obstruction and whitewashed. No timber is allowed to be set in the main entries, and any slate that is considered dangerous, is taken down and removed to the outside, or stored in the mines. Shot inspectors are employed in this mine so as to see that the holes are properly drilled and the correct amount of powder placed in the holes. Clay is furnished at a convenient place to use for tamping. All coal dust is properly watered down. Miners are well supplied with timber, posts and caps. The second opening meets the requirements of the law. Some kerosene was used in this mine for illuminating purposes. Stretchers, blankets and safety lamps, and all other supplies as required by law are on hands. Mine foreman and fire boss records are properly filled out.

EDWARD ESSER, Supt.

M. C. CONLEY, Mine Foreman.
GEORGE CASTLE, Mine Foreman.
W. SHORT, Fire Boss.
J. E. RILEY, Fire Boss.

Series No. 1145. *No. 3 Mine.*—This mine is located at Gary on a branch line of the N. & W. Railway seven miles from Welch, and is a drift opening, operating the No. 4 seam. Ventilation is produced by a 20 ft. fan, and the air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entries and stoppings are all built of concrete. Overcasts are used to make the proper splits in the air currents as required by law. All break-throughs are driven at the proper distance. Drainage generally good throughout the mines. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction and whitewashed. In several places electric lights are hung. In some parts of this mine it is very dry and slightly dusty. The second opening meets the requirements of the law. Only part of this mine was working at the time of the inspection. This office has been furnished with maps of the mine up to date. Miners were well supplied with timber and posts. Some mixed oil was used in this mine. All other necessary supplies, as required by the law, are on hand. Mine foreman and fire boss records properly filled out.

W. A. WILSON, Supt.

M. P. BRADY, Mine Foreman.
JAMES KNOT, Fire Boss.

Series No. 1146. *No. 4 Mine.*—This mine is located at Jared on a branch line of the N. & W. Railway ten miles from Welch. This is a drift opening and is ventilated by an 18 ft. fan, which gives ample ventilation for this mine. Drainage is generally good throughout this mine. All break-throughs are driven at the required distance. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper split in the air current as required by law. This mine is developed on the four entry system with two intakes and two returns. Refuge holes where men travel are at the proper distance, and are kept clear of all obstruction also whitewashed. No timber is allowed to be

set on the main entries, and any slate that is in a dangerous condition will be taken down, and it is removed to the outside or stored in the mines. Powder is carried into the mines in 5 lb. metallic canisters. All coal dust is properly watered down. Miners are well supplied with timber, posts and caps. The second opening meet with the requirements of the law. Oil used is of a good quality. Blankets, stretchers and safety lamps and all other supplies as required by law are on hands. Mine foreman and fire boss records are properly filled out.

W. T. PEACOCK, Supt.

LEE SEXTON, Mine Foreman.

F. A. MORRIS, Fire Boss.

FRANK SEXTON, Fire Boss.

Series No. 1147. *No. 5 Mine.*—This mine is located eleven miles from Welch. It is a drift opening, working what is known as the No. 3 Pocahontas seam. Ventilation is produced by a 16 ft. Capell fan, and the air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper splits in the air current as required by law. All break-throughs are driven at the required distance. Doors and brattice are built of a good quality. Some kerosene is used in this mine for illuminating purposes. All refuge holes where men travel are kept clear of all obstructions, and are at the proper distance as required by law, and are whitewashed. Powder is carried into this mine in 5 lb. metallic canisters. At the time of inspection this mine was very moist all through. Miners were well supplied with timber, posts and caps. Second opening meets the requirements of the law. Stretchers, blankets and safety lamps are on hands, and all other necessary supplies as required by law.

W. T. PEACOCK, Supt.

L. WILEY, Mine Foreman.

MIKE KOVISH, Fire Boss.

Series No. 1148. *No. 6 Mine.*—This is a drift opening operating the No. 4 Pocahontas seam, and is ventilated by a 20 ft. fan (Capell), and produces 250,000 cubic ft. of air per minute. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper splits in the air current as required by law. This mine is developed in the four entry system, using two entries for the intake, and two entries for the return. All break-throughs are driven the required distance. Drainage generally good all through the mines. All dust is properly watered down. Refuge holes where men travel are at the proper distance, and are kept clear of obstruction also whitewashed. In all entries in this mine there is a 2 ft. clearance on each side of the mine cars. Sixty pound rails are used on the main entries, and forty pound rails on the cross entries. Miners are well supplied with timber, posts and caps. Second opening meets with the requirements of the law. With the present equipment, and a full force of men, this mine is able to produce 2000 tons per day. Notices are posted. Stretchers, blankets and safety lamps, and all other supplies as required by law are on hands.

JOHN KERNS, Supt.

JOHN MAURICE, Mine Foreman.

JOHN TOKASH, Fire Boss.

Series No. 1149. *No. 7 Mine.*—This mine is located two miles from Gary on a branch line of the N. & W. Railway, and is ventilated by a fan, and the air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used in general throughout the mines, to make the proper split in the air current as required by law. All break-throughs are driven at the proper distance. Drainage generally good throughout the mines. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction and whitewashed. Powder is carried into this mine in 5 pound metallic canisters. Miners were well supplied with posts, caps and timbers. Second opening meets the requirements of the law. Oil used of a good quality. Stretchers, blankets and safety lamps on hands and all other supplies as required by law. Mine foreman and fire boss records were properly filled out.

FRANK KERNS, Supt.

A. G. HAHN, Mine Foreman.

H. RAGON, Fire Boss.

Series No. 1150. *No. 8 Mine.*—This mine is located on a branch line of the N. & W. Railway, four miles from Gary, working what is known as the No. 4 Pocahontas seam. The A drift is in operation, but the C drift has been closed down for some time. Ventilation is produced by a 12 ft. fan, which is giving very good results. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used all through the mines to make the proper split in the air current as required by law. All break-throughs are properly driven at the required distance. Drainage generally good throughout the mines. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction and whitewashed. All powder is carried into this mine in 5 pound metallic canisters. Coal dust is properly watered down. Miners were well supplied with timber, posts and caps. Second opening meets the requirements of the law. The oil used is of a fair quality. Stretchers, blankets and safety lamps are kept on hand, and all other necessary supplies as required by the law.

H. N. HARRIS, Supt.

CHARLES GATES, Mine Foreman.

WILLIAM GATES, Fire Boss.

Series No. 1151. *No. 9 Mine.—East and West.*—These mines are ventilated by a 14 ft. fan, and the air is well distributed to the working faces, in both of the mines. Check doors are used in general throughout the mines to ventilate the rooms. Main entry stoppings are built of concrete. Two overcasts were under construction so as to make the proper splits in the air current as required by law. All break-throughs were driven the required distance. Drainage generally good. The roof in the east side mine is very bad in places, but great care is being taken by the foreman in charge as to the general safety of the men. Abundance of timber, posts and caps are on hand. The second opening meets the requirements of the law, in both mines. All coal is produced in the west mine with picks with the exception of one entry where there is one machine at work,

which both cuts and loads the coal and produced 40 tons an hour. The oil used is of a fair quality. Stretchers, blankets and safety lamps are kept on hands, and all other supplies, as required by law.

S. H. GRAHAM, Supt.

M. McFARLAND, Mine Foreman.

GRIT STEWART, Mine Boss.

Series No. 1152. *No. 10 Mine.*—This mine is located at Gary seven miles from Welch on a branch line of the N. & W. Railway. It is a drift opening operating the No. 3 Pocahontas seam. Ventilation is produced by a fan, and the air is well distributed to the working faces. Check doors being used in general all through the mines. Main entry stoppings are built of concrete. Overcasts are used in making the proper splits in the air current as required by law. Drainage is generally good throughout the mines. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction and properly whitewashed. All loose rock in the main entries is taken down as soon as observed. In some parts of this mine the dust needs to be watered down, especially in the first left. Miners were well supplied with timber, posts and caps. Oil used for illuminating purposes is generally good. All coal is cut by electric machines in this mine, and hauled by motors. Trolley wires were in good condition. Machine wires only fair. Stretchers, blankets and safety lamps were on hand, and all other supplies, as required by law.

R. M. MERCER, Supt.

D. W. DARBY, Mine Foreman.

THOMAS SCOTT, Fire Boss.

Series No. 1153. *No. 11 Mine.*—This mine operates the Nos. 3 & 4 seam, and is located three miles from Gary. It is ventilated by a fan which ventilates both mines, and produces very good results. Drainage and roof are good, and oil used is of a fair quality. The coal is undercut by electric machines. All break-throughs are driven at the proper distance required. Stoppings in the main entry are built of concrete. Overcasts are used in general to make the proper splits in the air current as required by the law. Powder is carried into this mine in 5 pound metallic canisters. Miners were well supplied with timber, posts and caps. The second opening meets the requirements of the law. Stretchers, blankets and safety lamps are on hand, and all other supplies as required by law. Mine foreman and fire boss records are properly filled out.

J. H. DUNN, Supt.

GEORGE HAWTHORNE, Mine Foreman.

J. L. MULLINS, Mine Foreman.

FRANK WHITE, Fire Boss.

Series No. 1154. *No. 12 Mine.*—This mine is located six miles from Gary on a branch line of the Norfolk & Western Railway, and is working coal known as the Pocahontas No. 3 seam. This is a drift opening, and ventilation is produced by a 16 ft. fan (Clifford), and the air is well distributed to the working faces. Check doors are used in general all through the mines. Overcasts are under construction to make the proper splits in the air current as required by law. Stoppings in the main entry

are built of concrete. Break-throughs are driven at the required distance. Drainage generally good throughout the mines. Powder is carried into the mines in 5 pound metallic canisters. Some dust was observed in this mine. Second opening meets the requirements of the law. The oil used is of a fair quality. Notices were posted at this mine. Stretchers, blankets, safety lamps and all other supplies as required by the law were on hand. Mine foreman records were properly filled out.

H. T. GRAHAM, Supt.

J. M. BRYAN, Mine Foreman.

JOE REEDER, Fire Boss.

BLACK WOLF COAL & COKE COMPANY.

Series Nos. 1155-1156. *Nos 1 & 2 Mines.*—These mines are located on a branch line of the N. & W. Railway, and working the Pocahontas No. 3 seam. Ventilation only fair, and fairly distributed. Break-throughs were at the required distance. Roof very bad throughout the mines. Rooms not properly timbered. Considerable loose slate was found in the entries where men travel. Drainage fairly good. Supply of timbers in rooms very poor. Stretchers, blankets and safety lamps on hands, as required by law. The oil is of a fair quality.

E. C. BERKELEY, Supt.

ARTHUR STURM, Mine Foreman.

PAGE COAL AND COKE COMPANY.

Series No. 1157. *No. 1 Mine.*—This mine is located on the Branch Line of the N. & W. Railway, and is working the No. 3 Pocahontas Seam. One tippie being used for 1, 2 and 3 Mines. Ventilation is produced by an 18 ft. fan, and the air is very well distributed to the working faces. Check doors being used to ventilate rooms. Roof fairly good. Drainage good. No bad practices observed. Coal was cut by compressed air machines, while haulage was done by electricity. Maps were furnished this office up to date as required by law. Stretchers, safety lamps and blankets were on hand, and all other necessary supplies, as required by law.

J. R. BAILEY, Supt.

J. A. GALLIMORE, Mine Foreman.

Series No. 1158. *No. 2 Mine.*—This mine is located on the Branch Line the N. & W. Railway, and working the No. 3 Pocahontas seam. Ventilation very good throughout the mines. Drainage fair. Roof very bad in places, but well looked after. Miners were well supplied with posts. 500 volts were used in this mine, which is extremely dangerous where men travel. Oil used of a fair quality. All supplies as required by law on hand. Mine foreman records were properly filled out.

J. R. BAILEY, Supt.

THEODORE HANNA, Mine Foreman.

Series No. 1159. *No. 3 Mine.*—This mine is located on the Branch Line of the N. & W. Railway, and working the No. 3 Pocahontas seam. Ventilation is produced by a 6 ft. exhaust fan, and is giving good results, the air being well distributed to the working faces. The roof very bad in places, and miners well supplied with timbers. In some cases holes

were found bored beyond the undercut. Clay was put at suitable places for miners to use for tamping their holes before blasting. Break-throughs were driven at the required distance. Powder was carried into the mines in 5 lb. metallic canisters. All supplies pertaining to law on hand, and mine foreman's records properly filled out.

J. R. BAILEY, Supt.

J. A. GALLIMORE, Mine Foreman.

WELCH COAL AND COKE COMPANY.

Series No. 1160. *Welch No. 1 Mine.*—This mine is located on the main line of the N. & W. Railway one-half mile west of Welch, and is a drift opening. Ventilation is produced by a 12 ft. fan which is giving ample air but not conducted to the working faces. Drainage in this mine is only fair. The second opening meets with the requirements of the law. Break-throughs are driven at the required distance. All loose rock is properly taken down where men travel. Powder is carried into this mine in 5 lb. metallic cans. No dust was observed. All miners were well supplied with posts and caps. The oil used is of a fair quality. All other necessary supplies as required by the law are kept on hand.

F. J. BAXTER, Supt.

JAMES McBRYER, Mine Foreman.

HEMPHILL COLLIERY COMPANY.

Series No. 1161. *Hemphill No. 2 Mine.*—This mine is located on the main line of the N. & W. Railway, one-half mile from Welch. Ventilation is produced by a 14 ft. fan, which gives ample air for this mine, and it is very well conducted to the working faces. Doors, brattice and stoppings are of a very poor quality. Break-throughs are driven at the required distance. Drainage very poor. In some parts of this mine the coal is cut by machines. The second opening meets with the requirements of the law. Powder is carried into this mine in 5 lb. metallic canisters, except in one case where I found that one keg of powder had been taken in the traveling way of the mine. The oil used is of a fair quality. All other necessary supplies as required by law on hand. Mine foreman's records properly filled out.

F. J. BAXTER, Supt.

J. H. WILLIAMS, Mine Foreman.

MIDDLE STATES COAL AND COKE COMPANY.

Series No. 1162. *No. 11 Mine.*—This is a shaft mine located on the main line of the N. & W. Railway, two miles east of Welch. The depth of this shaft is 182 ft. Ventilation is produced by an 18 ft. Capell fan. Considerable gas was generated in this mine, and brattice cloth is fairly well looked after so as to clean out the gas that may accumulate in the working faces. Part of the stoppings in the main entry are built of concrete while part are built with refuse such as bone coal, which is not substantial enough for this mine. All coal is cut by electric machines and hauled by motors, using no mules in the mines. Electric wires are very low in places and not protected, at cross overs where men travel. Very

little timber is used in this mine, owing to the hard sand stone roof. Drainage is generally good throughout the mines. All break-throughs are driven at the required distance. Both black powder and safety powder are used for blasting purposes. Kerosene oil is used in general. Stretchers, safety lamps and blankets as required by law are all on hand. Mine foreman and fire boss records are properly filled out.

HARRY OLMSTED, Supt.

DAVID EVANS, Mine Foreman.

JOHN H. WILLIAMS, Fire Boss.

DIXON-POCAHONTAS FUEL COMPANY.

Series No. 1163. *Northside No. 1 Mine.*—This mine is located on the main line of the N. & W. Railway three miles east of Welch. This is a shaft opening, operating coal known as the No. 4 Pocahontas seam. Ventilation, is produced by a 15 ft. fan, which was giving ample air at the time of this inspection, but not properly distributed to the working faces, in some parts of this mine. This mine is generating considerable explosive gas. Break-throughs are driven at the required distance. Stoppings are of a fair quality. Check doors were somewhat neglected. The coal is undercut by electric machines. Second opening meets the requirements of the law. Drainage is generally good throughout the mines. More care should be taken by the foreman in charge of this mine to see that the brattice cloth is kept within a reasonable distance from the working faces. This mine is using the permissible explosive, and as to a dangerous practice, the miners are using short fuse, for blasting coal. Clay is put at suitable places for miners to use for tamping the holes. Rules are posted. Oil used is of a fair quality. Stretchers, blankets and safety lamps are kept on hand, and all other necessary supplies as required by the law.

CAREL ROBINSON, Supt.

F. DEVENNY, Mine Foreman.

DAN PARKER, Fire Boss.

Series No. 1164. *Southside No. 2 Mine.*—This is a shaft opening located on the main line of the N. & W. Railway, three miles east of Welch. This is practically a new mine. Ventilation is produced by a temporary fan at the foot of the shaft which is giving very good results at the present. The coal is cut by machines. All dust is properly watered down. Drainage and roof are generally good. All break-throughs are driven at the required distance. The electric wires are properly constructed. Doors are of a fair quality. Sanitary condition of this mine, I consider good. Miners are well supplied with posts and caps. Stretchers, blankets, and safety lamps on hand, and all other necessary supplies as required by law.

CAREL ROBINSON, Supt.

M. N. LIIY, Mine Foreman.

JOHN VICKERS, Fire Boss.

CIRRUS COAL AND COKE COMPANY.

Series No. 1165. *Cirrus Mine.*—This mine is located on the main line

of the N. & W. Railway, five miles east of Welch. This is a slope opening and is operating the No. 3 Pocahontas seam. Ventilation is produced by two fans which were only giving fair results. This mine is liberating off some explosive gases. Brattice and stoppings are of a very poor quality. Considerable dust is observed in the first right entry. The miners were well supplied with posts. The oil used is of a fair quality.

NOTE:—The above company has nearly completed a new slope which will be called Cirrus No. 2 mine. They have opened Nos. 3 & 4 seams and expect to ship coal within the next thirty days.

THOMAS A. SHEWEY, Supt. EDWARD FLANAGAN, Mine Foreman.
JOHN MORAN, Fire Boss.

VIRGINIA FUEL COMPANY.

Series No. 1166. *Virginia Mine*.—This mine is a slope opening located on the main line of the N. & W. Railway at Big Four. Ventilated by a fan, the air is being well distributed to the working faces. Doors and brattices are of a fair quality. All break-throughs are driven at the required distance. Drainage is good throughout the mine. Permissible explosives are used in this mine for all blasting purposes. Miners are well supplied with timber. The oil used is of a fair quality and all other necessary supplies required by law are on hand.

J. A. STATON, Supt. L. A. DUFFIELD, Mine Foreman.

KING COAL COMPANY.

Series No. 1167. *King Mine*.—Located on the main line of the N. & W. Railway, seven miles from Welch, and is working the Pocahontas No. 3 seam. Ventilation is produced by a 16 ft. fan which is producing 180,000 cubic ft. of air per minute. The air is well distributed to the working faces. Check doors are used to ventilate the rooms. Brattice cloth is kept near the face of all entries where gas is liberated. All stoppings in the main entries are built of concrete. Overcasts are used in general to make the proper splits in the air current as required by law. All break-throughs are driven at the required distance. Drainage generally good throughout the mines. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction, and whitewashed. Safety lamps are used in this mine for illuminating purposes. All shooting is done by regular shot-firers, who are employed by the company. Permissible explosives are used. All tamping is done with clay. Miners are well supplied with timbers, posts and caps. The second opening meets with the requirements of the law. Stretchers, blankets and all other necessary supplies as required by law are on hand.

W. C. EASLEY, Gen'l Supt. S. P. CAMPBELL, Gen. Mine Foreman.
EDW. NICHOLSON, Mine Foreman.
L. T. STERN, Fire Boss.
HARRY HULME, Fire Boss.

TIDEWATER COAL AND COKE COMPANY.

Series No. 1168. *Tidewater Mine.*—This mine is located on the main line of the N. & W. Railway, and is a drift opening. Ventilation is produced by a 16 ft. fan and a 10 ft. fan. Since the inspection of this mine they have installed a 10 ft. Jeffrey fan, which gives excellent results. The air is well distributed at the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper splits in the air current as required by the law. All break-throughs are driven the proper distance required. Drainage generally good all through the mines. Some gas is liberated in this mine, but is very well taken care of. A large force of men are at work cleaning out the refuse in the airways. All slate and timber that had accumulated in this mine has been removed to the outside. Refuge holes are at the proper distance, and are clear of all obstruction and whitewashed. Roof in this mine is very bad in places, but is well taken care of. The permissible explosives are used in the pillar work. Clay is used for tamping the holes throughout the mines. Miners were well supplied with timbers. The second opening meets the requirements of the law. Oil used is of a good quality. Stretchers, blankets and safety lamps are kept on hands, and all other necessary supplies, as required by law.

W. C. EASLEY, Gen'l Supt.

S. P. CAMPBELL, Gen. Mine Foreman.

OTT SMITH, Mine Foreman.

T. L. BOOTH, Fire Boss.

BOTTOM CREEK COAL AND COKE COMPANY.

Series No. 1169. *Bottom Creek Mine.*—This is a drift mine, located at Vivian on the main line of the N. & W. Railway. Ventilation is produced by a 16 ft. fan, and the air is fairly well distributed to the working faces. In places where gas is liberated, brattice cloth is set in a reasonable distance from the working faces so as to clean out all gas that may accumulate. Roof in this mine is very bad, but is well looked after. Three overcasts are under construction at this writing so as to make the proper splits in the air current, as required by the law. Miners are well supplied with timbers. Drainage is generally good throughout the mines. Break-throughs are only fair. Refuge holes where men travel are obstructed with some posts and rock. Recommendations were made to have all refuge holes put in a better condition, and same whitewashed. Second opening meets with the requirements of the law. All oil used is of a fair quality. Stretchers, blankets and safety lamps are on hand, and all other supplies as required by law.

G. S. PATTERSON, Gen'l Supt.

JOHN BELL, Mine Foreman.

WM. STOCKDALE, Fire Boss.

PEERLESS COAL AND COKE COMPANY.

Series No. 1170. *Peerless Mine.*—This mine is located on the main line of the N. & W. Railway at Vivian, and is operating what is known as the

No. 3 Pocahontas seam. This is a drift opening, and is ventilated by a 12 ft. fan. The ventilation at the working faces in this mine was very insufficient. All coal is produced by pick, and is properly undercut. In some cases I found that the miners were putting their holes beyond the undercut, but this was only found in a few places. Clay was used for tamping the holes. Drainage generally good all through the mines. Coal dust is kept well watered down. The roof in this mine is very bad, but is well taken care of. Locomotives are used for hauling coal, but I have the pleasure to say that locomotives in this mine will be abandoned within the next ten days. Electric plant is complete, and the electric wires are hung ready to install electric haulage motor. One drawback in the ventilation of this mine, is the narrow entry in which hauling is done. This has been improved by slabbing the entry to the first side track, giving an area of 120 ft. Excavating is being done to install a new fan, which also expects to be in operation within the next sixty days.

R. Y. LUTHER, Supt.

THOMAS WELDON, Mine Foreman.

W. A. WHITE, Fire Boss.

EMPIRE COAL AND COKE COMPANY.

Series No. 1171. *Empire Mine*.—This mine is located on the main line of the N. & W. Railway at Landgraf. Ventilation is produced by a 15 ft. fan, and is giving 178,000 cubic ft. of air per minute, and is well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used in making the proper splits in the air current as required by law. Break-throughs are driven at the required distance. Gas is liberated in this mine, but is well taken care of. Brattice cloth is kept near the working faces as practical. All coal is undercut with picks. Clay is used for tamping. Drainage generally good throughout the mines. Refuge holes are at proper distance as required by law and are kept clear of all obstructions and whitewashed. The roof in this mine is very bad, but is well looked after. All dust is properly watered down. Miners are well supplied with timber, posts and caps. Second opening meets the requirements of the law. Oil used for illuminating purposes is of a fair quality. Stretchers, blankets and safety lamps on hand. Rules in the different languages are posted. All other necessary supplies as required by law, are on hand.

W. D. ORD, Supt.

T. R. BARRETT, Mine Foreman.

T. S. CAMPBELL, Fire Boss.

SHAWNEE COAL AND COKE COMPANY.

Series No. 1172. *Shawnee Mine*.—This mine is located on the main line of the N. & W. Railway at Eckman. It is a drift, operating the No. 3 Pocahontas seam. Ventilation is produced by a 14 ft. fan, and the air is very well distributed to the working faces. Check doors are used to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper splits in the air current as required by law.

Drainage generally good throughout the mines. Refuge holes are at the proper distance where men travel but are not whitewashed. The roof in this mine is fairly good, and fairly well looked after. All coal is properly undercut with picks. Clay is put at suitable places in the mines to be used for tamping. Coal dust is properly watered down. Miners are well supplied with posts and caps. Second opening meets the requirements of the law. Rules in the different languages are posted. All men who are employed are given a copy of the Mining Laws. Electricity is used for hauling in this mine. Stretchers, blankets and safety lamps on hand, and all other necessary supplies, as required by law.

MORRIS WATTS, Supt.

M. A. SEXTON, Mine Foreman.

JAMES BROWN, Fire Boss.

EUREKA COAL AND COKE COMPANY.

Series No. 1173. *Eureka Mine*.—This mine is located on the Branch Line of the N. & W. Railway, one mile from Eckman, and is operating No. 3 Pocahontas Seam. This mine is ventilated by a fan, and the air is well distributed to the working faces. Check doors are used in general all through this mine to ventilate the rooms. Main entry stoppings are built of concrete. Overcasts are used to make the proper splits in the air current as required by law. Doors and brattices were of a fair quality. Slight trace of gas was found in this mine. Break-throughs are driven at the required distance. All coal is properly mined by picks. All clay is put at a suitable place for miners to use for tamping. Locomotives are used for hauling purposes, but at this writing an electric plant is nearly completed. Electric wires are installed all through the mines, and electricity will be used for hauling within the next thirty days. Powder was carried into this mine in 5 lb. metallic cans. Second opening meets the requirements of the law. Miners are well supplied with timber, posts and caps. Rules in the different languages are posted, and all necessary supplies as required by law are on hand.

ED DALTON, Supt.

R. S. WHITEHEAD, Mine Foreman.

M. SINCOT, Fire Boss.

PULASKI IRON COMPANY.

Series No. 1174. *No. 1 Mine*.—This mine is located on the main line of the N. & W. Railway at Eckman, and is working the No. 3 Pocahontas seam. Ventilation is produced by a fan, and the distribution of the air is only fair. Drainage poor. Doors and brattices fair. Roof bad, but well looked after. Miners were given a good supply of posts. Second opening meets the requirements of the law. Oil used is of a fair quality. Rules were posted. Powder was carried into this mine in 5 lb metallic cans. Stretchers, blankets and safety lamps on hand, and all other supplies as required by the law.

P. J. JOHNSON, Supt.

J. M. SHANK, Mine Foreman.

Series No. 1175. *No. 2 Mine*.—This mine is located at Eckman on the

N. & W. Railway, and is a drift opening operating No. 3 seam. Ventilation is produced by a 16 ft. fan, and gives ample air for this mine, and is well distributed to the working faces, except in two cases where the entries were driven beyond the 80 ft. limit. Drainage is generally good throughout the mine. Refuge holes where men travel were at the proper distance, and kept clear of all obstruction and properly whitewashed. All coal dust is properly watered down. The miners were well supplied with timber, posts and caps. This mine is equipped with very good sprinkling devices, which are used on the mine trucks, and are used to keep the mine in a very damp conditon. The second opening meets the requirements of the law. Rules were posted and all other necessary supplies as required by law on hand.

P. J. JOHNSON, Supt.

J. M. SHANK, Mine Foreman.

KEYSTONE COAL AND COKE COMPANY.

Series Nos. 1176-1177. *Nos. 1 & 2 Mines.*—These mines are located on the main line of the N. & W. Railway at Keystone, and are ventilated by two fans. One 18 ft. and one 8 ft. Ventilation in No. 1 mine is very good, and very well distributed to the working faces. Stoppings in the main entry are built of concrete. Break-throughs were driven at the required distance. Gas was observed, also an accumulation of dust in the main entry in various places. Refuge holes where men travel were not kept properly cleaned out, and not properly whitewashed. In No. 2 mine the air was very insufficient at the working faces. Break-throughs were only fair. Drainage only fair. Powder was carried into these mines in 5 lb. metallic cans. Miners were well supplied with timber, posts and caps. Second opening meets the requirements of the law. Oil used was of a mixed quality. Mine foreman's records were properly kept, and all other necessary supplies as required by law were on hand.

J. K. F. STEELE, Supt.

G. B. SMITH, Mine Foreman.

JAS. SMITH, Asst. Mine Foreman.

G. W. COOPER, Fire Boss.

LYNCHBURG COAL AND COKE COMPANY.

Series No. 1178. *Lynchburg Mine.*—This mine is located on the main line of the N. & W. Railway at Kyle, and is working the No. 3 Pocahontas seam. Ventilation is produced by a 16 ft. fan and the air is very well distributed to the working faces. Check doors are used to ventilate the rooms but not as many check doors as are needed. Stoppings in the main entry are built of masonry. Overcasts are used in making the proper splits in the air current as required by law. Drainage generally good throughout the mines. Slight trace of gas was found in this mine. Maps are furnished this office up to date. Powder was carried into this mine in 5 lb. metallic cans. Refuge holes where men travel are at the proper distance and are kept clear of all obstruction and properly whitewashed. Coal is mined by picks. Clay is put at suitable places in the mines to use for tamping the holes before shooting. Second opening

meets the requirements of the law. All coal dust is properly watered down. Rules in the different languages are posted. Stretchers, blankets and safety lamps on hand, and all other necessary supplies as required by law.

A. J. DALTON, Supt.

THOMAS W. FITZIMMONS, Mine Foreman.

JAMES ARMSTRONG, Fire Boss.

POWHATAN COAL AND COKE COMPANY.

Series No. 1179. *Powhatan Mine*.—This mine is located on the main line of the N. & W. Railway at Powhatan, and is working the No. 3 Pocahontas Seam. Ventilation is produced by a 16 ft. fan, and is giving good results. The air being fairly well distributed to the working faces. Drainage and roof generally good throughout the mines. All stoppings on the main entry are built of substantial material. Overcasts being used to make the proper splits in the air current as required by law. Break-throughs are driven the required distance. All entries are undercut by air machines while the balance of the mine is undercut by picks. Clay is put at suitable places in the mine for the miners to use for tamping their holes before blasting. Refuge holes on the main entry are at the proper distance and are kept clear of obstruction, and properly white-washed. Haulage from the side track at the time of this inspection was done by a locomotive. At this writing electricity has been installed, and electric motors are used for all hauling purposes. Electric lights are constructed at all refuge holes where men travel. Powder is carried into this mine in 5 lb. metallic canisters. Dust is properly watered down. Miners were well supplied with timbers, and second opening meets the requirements of the law. Some mixed oil was used in this mine for illuminating purposes. Maps are furnished this office up to date, and all other supplies as required by law on hand. Mine foreman records properly filled out.

J. A. DALTON, Supt.

JOHN LYNCH, Mine Foreman.

JOHN LYNCH, Jr., Fire Boss.

UPLAND COAL AND COKE COMPANY.

Series No. 1180. *No. 1 Mine*.—This mine is located on the main line of the N. & W. Railway at Elkhorn. It operates the No. 3 Pocahontas seam. This mine is ventilated by a 20 ft. fan using four splits in the air current which is controlled by regulators and overcasts. Ventilation is very good in this mine, but check doors were needed to ventilate the rooms. All stoppings on the main entry were built of substantial material. Doors and brattice of a good quality. All break-throughs were driven the required distance. Clay was put at suitable places to be used for tamping holes before blasting was done. Drainage and roof generally good throughout the mines. In a few places in this mine holes were bored beyond the undercut. Some mixed oil was used. Powder was taken into this mine in 5 lb. metallic canisters. Maps furnished this office up to date. This mine is well equipped with water appliances so as

to keep the dust well watered down, but is somewhat neglected. Slight traces of gas were observed. Recommendations were furnished this company to install fire boss, which was done at once. Refuge holes in the main entry where men travel, were at the proper distance, and kept clear of all obstructions, and whitewashed. Main entry is lighted by electricity. Rules in the different languages were posted and all other necessary supplies as required by law on hand.

J. J. LINCOLN, Supt.

J. A. GRANTAN, Mine Foreman.

ALVIN LUMP, Fire Boss.

HOUSTON COAL AND COKE COMPANY.

Series No. 1181. *No. 1 Mine.*—This mine is located at Elkhorn on the main line of the N. & W. Railway and is working in the No. 3 Pocahontas seam. This mine is ventilated by an 18 ft. Capell fan. Both intakes of the air coming through No. 2 mine, and a very good volume of air is circulating through the mines. Drainage in this mine is generally good throughout. Roof very bad in places. Considerable dust was found, but was fairly well watered down. No check doors were used to ventilate the rooms. Main entry stoppings were built of substantial material. Miners were well supplied with timbers. Powder was carried into this mine in 5 lb. metallic cans. Second opening meets the requirements of the law. The oil used is of good quality, and maps furnished this office up to date. All other supplies on hand as required by law. Mine foreman's records properly filled out.

BENJAMIN LEWIS, Supt.

CHRIS CRENSHAW, Mine Foreman.

Series No. 1182. *No. 2 Mine.*—This mine is located at Elkhorn on the main line of the N. & W. Railway, and is ventilated by No. 1 mine fan, which is giving very good results, but not properly distributed. Check doors not being used to ventilate the rooms. Main entry stoppings are built of masonry. Overcasts are under construction so as to make the proper splits in the air current for Nos. 1 and 2 mines, as required by law. All break-throughs in this mine were at the proper distance. Clay was put at suitable places for miners to use for tamping the holes before blasting was done. Refuge holes in the main entry where men travel are at the proper distance and are kept clear of all obstruction, and whitewashed. Some miners were carrying powder into this mine in excessive quantities. On May 19th, 1909, recommendations were furnished this Company to install a fire boss, as two entries in this mine were generating considerable explosive gases, and they were also instructed to keep a regular fire boss report, and to put a fire boss on duty at once. I also recommended to install a fan at No. 2 mine. Second opening meets the requirements of the law. Rules in the different languages were posted. Oil used of a fair quality. All other necessary supplies as required by law on hand. Mine foreman records were properly filled out.

BENJAMIN LEWIS, Supt.

GEORGE GUY, Mine Foreman.

CROZER COAL AND COKE COMPANY.

Series No. 1183. *Crozer No. 1 Mine*.—This mine is located on the main line of the N. & W. Railway one-half mile east of Elkhorn, and is working the No. 3 Pocahontas seam. Ventilation is produced by a 20 ft. fan, which is fairly distributed throughout the mines. No check doors are used to ventilate the rooms. Stoppings on the main entry were built of substantial material. All doors and brattices properly constructed. Considerable shooting was observed on the solid. Break-throughs were driven at the required distance. Drainage and roof generally good throughout the mines. The oil used is of a fair quality. Powder was carried into the mines in 5 lb. Metallic cans. Miners were well supplied with timbers. Refuge holes where men travel, were at the proper distance and kept clear of all obstruction, and properly whitewashed. Main entries were lighted by electricity. Rules in the different languages were posted. All other necessary supplies as required by law on hand. No fire boss was employed at this mine.

ED EVANS, Supt.

JOE McCROCKETT, Mine Foreman.

Series No. 1184. *No. 2 Mine*.—This mine is a drift opening operating the No. 3 Pocahontas seam, and is ventilated by a 15 ft. fan, which is only giving fair results. Drainage in this mine is very poor. Considerable dust was observed in the rooms. Stoppings on the Main Entries were built of substantial material. The air current was properly split as required by law. Break-throughs were driven at the required distance. Powder was carried into this mine in 5 lb. metallic cans. Miners were well supplied with timbers. Second opening meets the requirements of the law. Oil used for illuminating purposes good. Stretchers, blankets and safety lamps and all other supplies as required by law on hand.

ED EVANS, Supt.

T. M. SCOTT, Mine Foreman.

TURKEY GAP COAL AND COKE COMPANY.

Series No. 1185. *Turkey Gap Mine*.—This mine is located on the main line of the N. & W. Railway at Ennis. It is a drift opening, operating the No. 3 Pocahontas seam. This mine is ventilated by two 18 ft. exhaust fans, which are giving fairly good results under the conditions. Each room neck using brattice cloth, so the air will travel the edge of the falls. Stoppings on the main entry were built of substantial material, but no overcasts were used to make the proper splits in the air current as required by law. Break-throughs were driven at the required distance. Drainage generally good throughout the mine. This mine is on the retreat, and is all pillar work. Two inspections had been made in this mine and no gas was observed. On June 3rd, 1909, considerable space had been made by drawing pillars, which made a big fall, and liberated explosive gas. While the roof was falling explosive gas was forced out on to the men working near with open lights, and ignited which gave a slight compression throughout the mines, and caused the stampede with the men who rushed for the outside. Upon making investigation in this

mine, gas was found at the edge of the falls for a distance of 2,000 feet, and must have extended back to the boundary line which was about 1000 feet. Several days were consumed in getting this gas removed. More effective work could have been done in removing this gas, if the fans had been constructed so the air current could have been reversed.

The methods in which these pillars are drawn is a difficult proposition to ventilate with the present system. Steam locomotives are in the mines, although this present method has been used for years.

In the No. 52 opening, which has been standing for years, preparations have been made by the company to draw these pillars and run the locomotive in this No. 52 opening a distance of probably 2,000 ft. Recommendations were furnished this company in writing, forbidding the use of steam locomotives in this opening which were complied with. Miners were well supplied with timbers. The second opening meets the requirements of the law. Oil used only fair. Two fire bosses are employed. All necessary supplies as required by law on hand, and all records properly filled out.

ED McQUAIL, Supt.

J. P. JOHNSON, Mine Foreman.

JOHN MURRAY, Fire Boss.

JOHN WRIGHT, Fire Boss.

CENTRAL-POCAHONTAS COAL COMPANY.

Series No. 1187. *Anawalt Mine*.—This mine is located on the Branch Line of the N. & W. Railway fifteen miles from Welch, and is working the Pocahontas No. 3 seam. This mine has natural ventilation, and at the time of this inspection, was only working eleven men. All being entry work. Some shooting was done on the solid, while clay was used for tamping. Miners were well supplied with posts. Roof very bad. Drainage good.

G. T. FARROW, Supt.

G. T. FARROW, Mine Foreman.

TWELFTH DISTRICT.

GENERAL SUMMARY OF THE TWELFTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1909.

COUNTY.	No. of Openings.	No. Persons Killed.	EMPLOYEES,								Production of		
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Miners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	(Tons of 2,240 lbs.)	(Tons of 2,000 lbs.)
Lincoln	3		20	45	5	14	84	15		15	99	49,954	
Logan	29	11	31	916	178	461	1,586	379		379	1,965	1,909,063	
Mingo	54	10	245	785	273	419	1,722	331		331	2,053	1,617,581	
Wayne	1		41			16	57	4		4	61	34,619	
Totals..	87	21	337	1,746	456	910	3,449	729		729	4,178	3,611,217	

HON. JOHN LAING,

Chief of Dept. of Mines,

Charleston, W. Va.

DEAR SIR:—

In compliance with Section 3 of the Mining Law, I herewith respectfully submit to you my annual report as Inspector of the mines in the Twelfth District for the year ending June 30, 1909.

During the year I made one hundred and forty-seven regular inspections and forty-two special visits to the mines, which were mostly made for the purpose of investigating fatal accidents and to see that some former recommendations were being carried out.

I found fewer persons violating the mine law during the past year than in the previous year. Only three persons being prosecuted by me.

The general condition of the mines in this district has been greatly improved during the year, notwithstanding, the depression in the coal business, which seemed to prevail during the entire year. There are a few mines, however, where such a small amount of work has been done in them during the year, that no improvements can be noticed. Most of the improvements made consisted in installing fans and constructing permanent stoppings.

In my report of last year, I outlined what in my opinion I considered the dangers incident to the indiscriminate use of the black powder in the mines. It is pleasing for me to state that some of the largest operating

companies in my district have placed a strict supervision over the shooting of coal in the mines, so as to do away with some of the dangers attending it.

As it is now generally known that the reckless use of black powder in our mines has had most to do with the disastrous explosions which have happened during the last few years, I consider it the duty of this Department to make such regulations, pending a general act of the Legislature, as will help to do away with the dangerous practice we now have to contend with in the excessive and promiscuous use of black powder.

Regarding such regulations, I wish to say that I consider those drawn up recently by you, and which are to go into effect by the fifteenth of this month are a step in the right direction. If strictly enforced, I believe they will do much in preventing a repetition of those disastrous explosions we have had in the past.

Only eighty-three per cent of the fatal accidents that occurred in this district during the past year have been due to either riding on cars in the mines or on inclines outside of the mine. I have made a special investigation of every one of those accidents and I have found that in nearly every case the party was killed while not attending his own work. In such cases I have cautioned the Superintendent and mine foreman that a more strict discipline should be maintained and have no one but those skilled to perform such work.

In conclusion, I desire to give thanks to the operators and miners of the district who have shown such a ready willingness to assist me in having the mine law complied with.

I also wish to thank you for the able advice and assistance I received, and for the energetic way in which you stood back of me to bring about a more safe condition in our mines.

Respectfully submitted,

P. A. GRADY,

Mine Inspector, Twelfth District.

CONDITION OF THE MINES IN THE TWELFTH DISTRICT.

The last two series numbers indicate the Inspector's number of the mine, while the number or numbers preceding them indicate the number of the district in which the mine is located, viz: 1219 indicates the Twelfth District and number 19 mine.

LINCOLN COUNTY.

BRANCHLAND COAL COMPANY.

Series No. 1201. *Branchland Mine*.—This mine is located on the Guyan Valley Branch of the C. & O. R. R., is a drift opening in the Stockton seam conveying the coal across the river by an aerial tramway. The ventilation produced by a furnace is only fair. Drainage good; roof poor. The mine laws are complied with in all other respects.

J. C. FENIMORE, Supt. and Mine Foreman.

SOUTHERN FUEL COMPANY.

Series No. 1202. *Rochester Mine*.—This mine is located at Branchland on the Guyan River, operating the Stockton seam of coal. The ventilation produced by a furnace was found fairly good on day of last inspection. Roof is fair; drainage good. Very little coal has been shipped from this mine during the past year. At the time of my last inspection of this mine, I found some coal being shot from the solid. Recommendations were made that it either be done with a so-called safety powder or employ shot firers to do it when all other employes are out of the mine. G. W. COYLE, Supt. and Mine Foreman.

BRANCHLAND COAL COMPANY.

Series No. 1203. *Brown City Mine*.—Idle all year. No report. J. C. FENIMORE, Supt.

MITCHELL & BATES.

Series No. 1204. *Eden Park Mine*.—This mine is located on the Guyan Valley Branch of the C. & O. R. R.; opened in the Kanawha seam. Idle the whole year. J. W. MITCHELL, Supt.

LOGAN COUNTY.

PRUDENTIAL COAL MINING COMPANY.

Series No. 1205. *Prudential Mine*.—This mine is located at Big Creek on the Guyan Branch of the C. & O. R. R., operating the Kanawha seam of coal, has been idle all year and no inspection made. S. C. FISHER, Supt.

STONE BRANCH COAL COMPANY.

Series No. 1206. *Stone Branch Mine*.—This mine is located at Stone Branch on the Guyan River, operating the Kanawha seam of coal. The ventilation produced by a fan and furnace is good. Drainage good; roof fairly good. Stoppings and doors in good condition. The mine laws in all other respects complied with. The present management, which took control of this mine during the year, have done much to improve its condition. J. C. KENT, Supt. GEO. CASTLE, Mine Foreman.

BIG CREEK COAL COMPANY.

Series No. 1207. *Big Creek Mine*.—This mine is located at Kitchen on Guyan River; is a drift opening operating the Winifrede seam of coal. The ventilation produced by a furnace has always been found fairly good.

A fan was recommended and assurance given that it would be installed. Roof is good. Drainage good. Stoppings and doors in good condition. The mine laws in other respects are complied with.

W. T. OLIVER, Supt

JOHN EARLY, Mine Foreman.

E. R. JOHNSON COAL COMPANY.

Series No. 1208. *Johnson Mine*.—This mine is located near Logan on the Guyan River; is a drift opening operating the Winifrede seam of coal. The ventilation produced by a Stine fan, is good. Roof is good. On account of the undulating pavement, drainage is poor. The mine laws in all other respects are complied with. This mine started to ship coal during the year.

R. O. HEYZER, Supt.

J. A. BROWN, Mine Foreman.

DRAPER COAL & COKE COMPANY.

Series No. 1209. *Draper Mine*.—This mine is located at Logan; is a drift opening operating the Winifrede seam of coal. The ventilation produced by a furnace is not sufficient for the size of the mine. A fan was recommended to be installed and preparations are now being made to install it. Roof is good; drainage good. Permanent stoppings on main entries. In other respects, the mine law is being complied with.

R. O. HEYZER, Supt.

F. R. KITCHEN, Mine Foreman.

H. T. WILSON COAL COMPANY.

Series No. 1210. *Wilson Mine*.—This mine is located at Logan and is operating the Winifrede seam of coal. The ventilation produced by a fan is good. Roof is good; drainage good. Stoppings and doors in good condition. The law, in regard to powder, oil, safety lamps, stretchers and blankets, is complied with.

R. O. HEYZER, Supt.

BEN WILSON, Mine Foreman.

FORT BRANCH COAL COMPANY.

Series No. 1211. *Fort Branch Mine*.—This mine is located about three miles above Logan on Dingess Run. It is a drift mine, operating the Winifrede seam of coal. Ventilation produced by an 8-foot Thayer fan that was installed during the year is good. Roof and drainage are good. Doors and stoppings in good condition. The mine law in other respects is complied with.

C. E. STAFFORD, Supt.

J. E. BOLEN, Mine Foreman.

PRICE COAL COMPANY.

Series No. 1212. *Price Mine*.—This mine is located about four miles above Logan on ingess Run. It is a drift mine operating the Winifrede seam of coal. The ventilation produced by a furnace has always been

found fairly good. They are preparing now to install an 8-foot Stine fan which was recommended. Roof and drainage are good. Doors and stoppings in good condition. The law in other respects complied with.

C. E. PRICE, Supt.

J. R. PRICE, Mine Foreman.

REX COAL & COKE COMPANY.

Series No. 1213. *Rex Mine*.—This mine is located about four miles above Logan on Dingess Run. It is a drift opening operating the Winifrede seam of coal. The ventilation produced by a furnace has been found good. An 8-foot fan which was recommended is now being installed. Roof and drainage are good. Doors and stoppings in good condition. The law in other respects complied with.

J. P. KINZER, Supt.

G. H. BOLEN, Mine Foreman.

Series No. 1214. *Logan No. 1 Mine*.—This mine is located four miles above Logan on Dingess Run. It is a drift mine operating the Winifrede seam of coal. The ventilation produced by a furnace is fairly good. Excavating is being done to install an 8-foot Stine fan which was recommended. Roof and drainage are good. Doors and stoppings in good condition. The plan of developing this mine was changed during the year from the ordinary main and cross entry system to the panel system which will make a great improvement in developing the mine. The mine laws in other respects are complied with.

J. P. SMALL, Supt.

W. S. MCGINNIS, Mine Foreman.

ETHEL COAL COMPANY.

Series No. 1215. *Ethel Mine*.—This mine is located five miles above Logan on Dingess Run. It is a drift opening operating the Winifrede seam of coal. The ventilation produced by a furnace is only fair. A fan was recommended and they are now installing a 10-ft. centrifugal fan. Roof and drainage are good. Doors and stoppings in good condition. In other respects, the mine laws are being complied with.

C. A. DEVENY, Supt.

M. HALL, Mine Foreman.

MONITOR COAL & COKE COMPANY.

Series No. 1216. *Monitor Mine*.—This mine is located on Main Island Creek about a mile and one half above Logan. It is a drift opening operating the Winifrede seam of coal on a double entry panel system. The ventilation produced by an 8-ft. Stine fan is very good. A 12-foot fan has been installed close to this one and is held in reserve for the future development of the mine. Roof and drainage are good. Doors and stoppings in excellent condition. Dust and other refuse is kept carefully cleaned from all entries and airways of the mine. A 60 H. P. boiler has been erected near the intake of the mine for the purpose of keeping the mine moist and maintaining a uniform humidity during the whole year. Pipes from this boiler are laid to different parts of the mine. This mine is inclined

to be naturally dry, but, owing to the method adopted for moistening the mine, the relative humidity readings taken by me during the winter months, have never fallen below 90 per cent. The management has, without being requested, endeavored to keep his mine in the safest condition possible.

J. E. BARLOW, Gen. Mgr.

E. M. STEVENS, Mine Foreman.

Series No. 1217. *Beechwood Mine*.—This mine is located on Main Island Creek about one and one-half mile above Logan. It is a drift mine operating the Winifrede seam of coal. The ventilation produced by an 8-ft. Stine fan is very good. Roof is good; drainage good. Doors and stoppings in excellent condition. This mine is kept in the same condition as the Monitor mine.

J. E. BARLOW, Gen. Mgr.

R. B. BARLOW, Mine Foreman.

YUMA COAL & COKE COMPANY.

Series No. 1218. *Yuma Mine*.—This mine is located on Main Island Creek above Logan. It is a drift mine operating the Winifrede seam of coal. The ventilation produced by an 8-foot Stine fan is very good. Roof is good. Drainage good. Doors, stoppings and overcasts in excellent condition. Dust and other refuse carefully cleaned from entries and air ways of the mine. The mine as a whole is in excellent condition.

C. K. ROBERTSON, Supt.

W. L. STEVENS, Mine Foreman.

GAY COAL & COKE COMPANY.

Series No. 1219. *Gay Mine*.—This mine is located on Island Creek above Logan. It is a drift mine operating the Winifrede seam of coal on a modified long wall system. The ventilation produced by a fan is good. Roof is good; drainage good. Doors and stoppings in good condition. The mine law in all other respects complied with.

H. S. GAY, Gen. Mgr.

FRED KELLERMAN, Mine Foreman.

CORA COAL & COKE COMPANY.

Series No. 1220. *Cora Mine*.—This mine is located on Island Creek above Logan. It is a drift mine operating the Winifrede seam of coal on a double entry system. The ventilation produced by an 8-foot Thayer fan is very good. Roof is good; drainage good. Doors and stoppings are in excellent condition. All coal is "snubbed" after being undercut and clay used for tamping shot holes. A careful supervisor is kept over the shooting of the coal. In all other respects, the mine laws are being complied with.

C. W. JONES, Gen. Mgr.

E. B. TRUAX, Mine Foreman.

UNITED STATES COAL & OIL COMPANY.

This company is operating six mines on Island Creek in Logan county. To render their mines as safe as possible they have

adopted a number of safety precautions along with keeping them in the most excellent condition possible. To overcome in their mines the danger there is in the shooting of the coal, they have employed shot bosses to patrol the mines to see that the coal is cut and shot in a proper manner. Clay tamping is used in the shot holes and excessive charges of powder are discouraged so as to reduce the danger there is in shooting and to net them a higher percentage of screened coal. The mine foremen are required to take frequent hygrometris readings to see that the relative humidity of the mine atmosphere is kept up at all times during the year. To maintain this humidity a plentiful supply of water is introduced into the mine during the winter months. For excellent conditions and getting out a large production of coal, I consider their Nos. 1 & 2 mines second to none in the state. A hospital is being erected convenient to the mines, where an ambulance can take those injured in the mines for treatment.

JAMES C. BEEBE, Gen. Mgr.

PAUL HARDY, Gen. Supt.

W. P. LEAR, Supt.

Series No. 1221. *Island Creek No. 3 Mine.*—This mine is located on Island Creek near Holden. It is a drift opening operating the Winifrede seam of coal. The ventilation produced by a 10-foot Stine fan is good. Roof is good. Drainage good. Doors, stoppings and overcasts in excellent condition. The mine laws are complied with in every respect.

HARDEN POIRIER, Mine Foreman.

Series No. 1222. *Island Creek No. 4 Mine.*—This mine is located near Holden; is a drift opening operating the Winifrede seam of coal. The ventilation produced by a 10-foot Stine fan is very good. Roof is good; drainage good. Doors and stoppings in excellent condition. The mine laws in other respects complied with.

HARDEN POIRIER, Mine Foreman.

Series No. 1223. *Island Creek No. 5 Mine.*—This mine is located on Island Creek near Holden; is a drift opening operating the Winifrede seam of coal. The ventilation of this mine, which is produced by the fan at No. 2 mine, is good. Roof is good; drainage good. Doors and stoppings in excellent condition. The mine laws complied with in all other respects.

W. B. SIMMS, Mine Foreman.

Series No. 1224. *Island Creek No. 6 Mine.*—This mine is located on Island Creek near Holden; is a drift mine operating the Winifrede seam of coal.

The ventilation produced by a 10-foot Jeffrey fan, installed during the year, is very good. Drainage is good. Roof good. Doors, stoppings, and overcasts in excellent condition. Like all the other mines of this company, this mine is in excellent condition.

W. B. SIMMS, Mine Foreman.

Series 1225. *Island Creek No. 2 Mine*.—This mine located at Holden, is a drift opening operating the Winifrede seam on the quadruple entry system. Ample ventilation is produced and well distributed throughout the mine by a thirteen and one-half foot fan. Roof is good; drainage good. Rules are posted. Stretchers and safety lamps are kept at the mine. All doors and stoppings in good condition. The mine laws are complied with in all other respects.

G. W. LAX, Mine Foreman.

Series No. 1226. *Island Creek No. 1 Mine*.—This mine, located on Island Creek, at Holden, is a drift opening operating the Winifrede seam of coal on the triple entry system. Ventilation produced by a thirteen and one-half foot Clifford fan is well distributed in the different splits throughout the mine. Roof is good; drainage good. Doors, stoppings, and overcasts in excellent condition. In other respects, the mine law is being complied with.

FRANK SHARP, Mine Foreman.

WAYNE COUNTY.

EAST LYNN COAL COMPANY.

Series No. 1227. *East Lynn No. 1 Mine*.—This mine, located eight miles from Wayne on Twelve Pole Creek, is a drift opening operating the Winifrede seam. The ventilation produced by two furnaces and natural causes has been found fairly good on days of inspection. Roof is good; drainage good. Oil and powder law is observed. Rules are posted and stretchers and safety lamps are kept at the mine. The coal is supposed to be shot with shot firers when all other employes are out of the mine.

A. J. PERRY, Gen. Mgr.

W. S. SELLARDS, Mine Foreman.

MINGO COUNTY.

PEARL COAL MINING COMPANY.

Series No. 1230. *Haggerty Mine*.—This mine, located at Dingess on the N. & W. R. R., is a slope opening, operating the Lower Kittanning seam. The ventilation, which was produced by an eight-foot Thayer fan, was good. Roof is good. Drainage was good. Oil and powder law observed. Rules are posted and stretchers and safety lamps kept at the mine. This mine was abandoned during the year.

J. F. KENT, Supt.

GEO. CASTLE, Mine Foreman.

MINGO BLOCK COAL COMPANY.

Series No. 1231a. *No. 1 Mine*.—This company started to open up mines about two years ago, on Pigeon Creek between Naugatuck and Dingess. No coal has been shipped and no inspections made.

DR. HENRY MACE PAYNE, Supt.

AJAX COAL COMPANY.

Series No. 1232. *Ajax Mine*.—Idle nearly all year. No inspection made.

NAUGATUCK COAL COMPANY.
(Formerly Walnut Hill C. & M. Co.)

Series No. 1233. *Naugatuck Mine*.—This mine, located on Pigeon Creek near Naugatuck, is a drift opening operating the Kittanning seam of coal. Ventilation produced by a furnace is good. Roof is good; drainage good. Doors and stoppings in good condition. Rules are posted and stretchers and safety lamps are kept at the mine. Coal cutting machinery was put in this mine during the year and a new coal tippie erected. The mine laws in other respects are complied with.

S. W. PERRY, Supt.

L. J. BLANKENSHIP, Mine Foreman.

WARFIELD COAL COMPANY.

Series No. 1234. *Warfield Mine*.—This mine, located four miles west of Naugatuck on Tug River, is a shaft opening operating the Alma seam. This mine has been idle all year on account of the coal trade depression. B. MOORE, Supt.

BIG SPLINT COAL COMPANY.

Series No. 1235. *Nolan Mine*.—Located near Nolan on the N. & W. R. R. It is a drift opening in the Winifrede seam. Idle all year and no inspections made.

No officials.

CULROSS COAL COMPANY.

Series No. 1236. *Jackson Mine*.—This mine, located near Nolan on the N. & W. R. R., is a drift opening in the Winifrede seam. Idle all year and no inspection made.

No officials.

LEMOIN COAL COMPANY.

Series No. 1238. *Hatfield Mine*.—This mine, located near Nolan on the N. & W. R. R., is a drift opening, operating the Winifrede seam of coal. This mine has not shipped any coal for the greater part of the year. The new company, which acquired control, has erected a new tippie and are making other necessary improvements. Was known last year as Hatefield Colliery Company.

J. W. MALSBY, Supt.

CHATTAROY COLLIERY COMPANY.

Series No. 1239. *Chattaroy Mine*.—This mine, located on Buffa'o Creek,

four miles west of Williamson, is a drift opening, operatnig the Winifrede seam of coal. The ventilation produced by furnace was not found satisfactory at the time of my last inspection, and recommendations were made that a fan be installed immediately. This I was assured would be done. Roof is good; drainage good. Doors and stoppings not in good condition. Rules posted and stretchers and safety lamps kept at the mine.

C. E. TABOR, Supt.

A. M. TABOR, Mine Foreman.

BUFFALO COLLIERY COMPANY.

Series No. 1240. *Buffalo Mine*.—This mine, located on Buffalo Creek, four miles west of Williamson, is a drift opening operating the Winifrede seam. Ventilation produced by a seven-foot Stine fan is good. Drainage is good. Roof is of a good sandstone. Doors and stoppings in good condition. Rules are posted. Stretchers and safety lamps are kept at the mine. Mine law in other respects is complied with.

S. V. PRESTON, Supt. and Mine Foreman.

LINGOHOCKEN COAL COMPANY.

Series No. 1241. *Lingohocken Mine*.—This mine, located on Buffalo Creek, four and one-half miles west of Williamson, is a drift opening operating the Winifrede seam. Ventilation produced by a fan is good. Roof is good; drainage good. Doors and stoppings in good condition. Rules are posted and stretchers and safety lamps are kept at the mine. Second opening meets lawful requirements.

W. B. BUCKWALTER, Supt.

J. H. BAISDEN, Mine Foreman.

HOWARD COLLIERY COMPANY.

Series No. 1242. *Howard Mine*.—This mine, located on Buffalo Creek, four and one-half miles west of Williamson, is a drift opening operating the Winifrede seam. Ventilation produced by a fan is very good. Roof is good; drainage good. Doors and stoppings in good condition. Second opening meets lawful requirements. Rules posted, stretchers and safety lamps are kept at the mine. This mine is in first-class condition.

F. L. SCHOEW, Gen. Mgr.

R. G. CLAYTOR, Mine Foreman.

F. L. ESTLER, Supt.

WINIFREDE CONSOLIDATED COAL COMPANY.

Series No. 1243. *Sugar Tree Mine*.—This mine, located on Sugar Tree Creek about two miles west of Williamson, is a drift opening operating the Winifrede seam. Ventilation, produced by furnaces, has always been found fairly good. Roof is good; drainage good. Doors and stoppings in fair condition. Rules are posted, stretchers and safety lamps are kept at the mine. Second opening meets lawful requirements.

W. A. LINDSEY, Supt.

J. T. STEVENS, Mine Foreman.

WILLIAMSON COAL & COKE COMPANY.

Series No. 1245. *Williamson No. 1 Mine*.—This mine, located at Williamson, is a drift opening operating the Kittanning seam. Ventilation is produced by a furnace. Only a few men were employed in this mine during the year. No inspections made.

W. T. POOLE, Supt.

Series No. 1246. *Williamson No. 2 Mine*.—This mine, located at Williamson, is a drift opening operating the Kittanning seam. On account of the coal trade depression, it has been idle all year.

L. B. RAMSEY, Supt.

Series No. 1246a. *Williamson No. 3 Mine*.—This mine, located at Williamson, is a drift opening in the Winifrede seam. It commenced shipping coal during the year. Ventilation produced by two furnaces is good. Roof is good. Drainage good. Rules are posted and stretchers and safety lamps are kept at the mine. Second opening meets lawful requirements. In all other respects, I found the law complied with.

L. B. RAMSEY, Supt.

H. H. KELLEY, Mine Foreman.

RAWL COAL AND COKE COMPANY.

Series No. 1247. *Rawl Mine*.—This mine, located four miles east of Williamson, is a drift opening operating the Kittanning seam. Ventilation produced by an 8-foot Thayer fan and furnace is only fair. Roof is good. Drainage good. Doors and stoppings in fair condition. Rules are posted. Stretchers and safety lamps are kept at the mine.

R. N. TAYLOR, Supt.

LYS. WEBB, Mine Foreman.

WHITE STAR COAL MINING COMPANY.

Series No. 1249. *Coaling Station Mine*.—This mine, located five miles east of Williamson, is a drift opening operating the Kittanning seam. This mine has been idle all year. It was known last year as the Coaling Station Mine of the Merrimac C. & C. Co.

GEO. WELCH, Supt.

Series No. 1250. *Commercial Mine*.—This mine, located five miles east of Williamson, is a drift opening operating the Kittanning seam. The ventilation is produced by a fan. This mine has been idle nearly the whole year. The present company are now building a new tippie and cleaning the mine up preparatory to resuming operations.

GEO. WELCH, Supt. and Mine Foreman.

BELVEDERE GAS COAL COMPANY.

Series No. 1251. *Aima Mine*.—This mine, located five miles east of Williamson, is a drift opening operating the Lower Kittanning seam. It has been idle all year and no inspection has been made.

MARVIN COAL COMPANY.

Series No. 1252. *Marvin Mine*.—This mine, located at Matewan, is a drift opening operating the Lower Kittanning and Thacker seams. The ventilation produced by a furnace is good. Drainage is good; roof frail. Rules are posted and stretchers and safety lamps are kept at the mine. The law in other respects, I found complied with.

J. A. WILLIAMS, Supt.

W. H. ARTIS, Mine Foreman.

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

Series No. 1253. *Rutherford Mine*.—This mine, located at Mate Creek near Matewan, is a drift opening operating the Thacker seam. The ventilation produced by a Crawford and McCrimmon fan has always been found good and well distributed throughout the mine. Roof is good; drainage good. Oil and powder law is observed. Doors and stoppings in good condition. The shooting of the coal, except on the pillar work, is mostly done at night.

JOHN SLUSS, Gen. Mgr.

J. S. CHILDERS, Mine Foreman.

T. E. BRAZEAL, Supt.

Series No. 1254. *Logan Mine*.—This mine, located on Mate Creek, two miles from Matewan, is a drift opening operating the Thacker seam. The ventilation which is forced through from the Red Jacket mine is ample for the few men employed. Roof is good; drainage good. The work in this mine is done in extracting pillars. The law in other respects is complied with.

T. E. BRAZEAL, Supt.

HUGH BOYD, Mine Foreman.

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

Series No. 1255. *Red Jacket Mine*.—This mine, located on Mate Creek, two miles from Matewan, is a drift opening operating the Thacker seam. The ventilation produced by a Crawford & McCrimmon fan is good. Roof is good; drainage good. Oil and powder law is observed. Rules are posted. Stretchers and safety lamps kept at the mine. There is a noticeable absence of powder smoke in this mine during the day on account of most of the shooting being done by shot firers at night.

JOHN SLUSS, Gen. Mgr.

HUGH BOYD, Mine Foreman.

T. E. BRAZEAL, Supt.

MATE CREEK COAL COMPANY.

Series No. 1256 and 1257. *Nos. 1 and 2 Mines*.—These mines, located at Matewan, are drift openings in the Thacker seam. They have been idle all year on account of the depression in the coal trade.

S. T. LAMBERT, Supt.

THACKER COAL & COKE COMPANY.

Series No. 1258. *Lynn Mine*.—This mine, located on the N. & W. R. R., three miles west of Thacker, is a drift opening in the Thacker seam. Ventilation produced by a furnace and natural causes was found fairly good on days of inspection for the number of men working in the mine. Roof is very good; drainage good. Doors and stoppings in fair condition. Mine laws posted and stretchers and safety lamps kept at the mine. Second opening meets the requirements of the law.

JAMES COLLINS, Gen. Supt.

TONY GARBAC, Mine Foreman.

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

Series No. 1259. *Maritime Mine*.—This mine, located near Thacker on a branch of the N. & W. R. R., is a drift opening in the Thacker seam. This mine has been idle all year and apparently abandoned as the machinery and other equipment has been taken from it. I have been informed that it would be developed through the Rutherford mine on the Mate creek side.

JOHN SLUSS, Gen. Mgr.

THACKER COAL & COKE COMPANY.

Series No. 1260. *Thacker No. 2 Mine*.—This mine, located on the Thacker branch of the N. & W. R. R., is a drift opening operating the Thacker seam. Ventilation produced by a fifteen-foot Crawford & McCrimmon fan, is good. Roof is of a frail nature, and requires careful attention. Drainage is good. Doors and stoppings in fair condition. Rules are posted in the different languages. Stretchers and safety lamps are kept at the mine. All coal mined is in extracting the pillars

JAS. COLLINS, Gen. Supt.

CHARLES SIGMUND, Mine Foreman.

Series No. 1261. *Thacker No. 3 Mine*.—This mine, located on the Thacker branch of the N. & W. R. R., is a drift mine operating the Thacker seam. Ventilation produced by a fifteen-foot Capell fan, is good. Roof is not good, requiring careful attention. Drainage is good. Oil and powder law is observed. Rules are posted in the different languages, and stretchers and safety lamps are kept at the mine. Second opening meets lawful requirements. The coal in this mine is all cut by chain machines. To guard against the danger of shooting heavy charges of black powder, the management, during the winter months, had the lower bench of coal shot with a permissible explosive under the supervision of shot firers. After the lower bench was shot, the upper one was shot with a few inches of black powder tamped with clay. This method of shooting the coal was heartily approved by the Inspector.

JAMES COLLINS, Gen. Supt.

PETER KERR, Mine Foreman.

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

Series No. 1262. *Lick Fork Mine*.—This mine, located on the Lick

Fork branch of the N. & W. R. R., consists of a number of drifts opened in the Thacker seam. Ventilation produced by three furnaces is good. Roof is good, drainage good. Doors and stoppings in good condition. Rules are posted in the different languages, and stretchers and safety lamps are kept at the mine. Second openings meet lawful requirements. The coal is shot from the solid by shot firers when all other employes are out of the mine.

JOHN SLUSS, Gen. Mgr.
W. A. WILSON Supt.

BASS PRICE, Mine Foreman.

THACKER COAL & COKE COMPANY.

Series No. 1263. *No. 10 Mine.*—This mine, located on the Lick Fork branch of the N. & W. R. R., is a drift opening operating the Thacker seam. Ventilation produced by two furnaces is fairly good. Roof is good; drainage good. Doors and stoppings in fair condition. Rules are posted and stretchers and safety lamps are kept on hand. Second openings meet lawful requirements.

JAMES COLLINS, Gen. Supt.

PETER STISSEL, Mine Foreman.

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

Series No. 1264. *Grapevine Mine.*—This mine, located near Thacker on the N. & W. R. R., is a drift opening operating the Thacker seam. Ventilation produced by furnaces and natural causes is fairly good. Roof is good; drainage good. Doors and stoppings in fair condition. Rules are posted. Stretchers and safety lamps are kept on hand. Second opening meets lawful requirements. The coal in this mine is shot from the solid and where a permissible explosive is not used, the shooting is done by shot firers when all other employes are out of the mine.

JOHN SLUSS, Gen. Mgr.

W. M. MUSSER, Mine Foreman.

W. A. WILSON, Supt.

MAJESTIC COLLIERIES COMPANY.

Series No. 1265. *Cedar Mine.*—This mine, located on the N. & W. R. R., about eight miles east of Thacker, is a drift opening operating the Kit-taning seam. On account of the depression in the coal trade, it has been idle the whole year.

A. R. RAWN, Supt.

GLEN ALUM COAL COMPANY.

Series No. 1266. *No. 1 Mine.*—This mine, located on the Alum Creek branch of the N. & W. R. R., is a drift opening operating the Thacker seam. Ventilation produced by a twelve-foot Crawford & McCrimmon fan, is good. Roof is good; drainage good. Rules are posted in the different languages. Stretchers and safety lamps are kept on hand. Second opening meets lawful requirements.

E. C. LAMBERT, Supt.

JAMES GENT, Mine Foreman.

Series No. 1267. *No. 2 Mine*.—This mine, located on the Alum Creek branch of the N. & W. R. R., is a drift opening operating the Thacker seam of coal. Ventilation produced by a twelve-foot Stine fan, is good. Roof is bad but carefully timbered. Drainage good. Doors and stoppings in good condition. Rules are posted in the different languages. Stretchers and safety lamps are kept on hand. Second opening meets lawful requirements.

E. C. LAMBERT, Gen. Supt.

FRANK McCLOSKEY, Mine Foreman.

WAR EAGLE COAL COMPANY.

Series No. 1268. *Star Mine*.—This mine, located at War Eagle, is a drift opening in the Kittanning seam. On account of the coal trade depression it has been idle all year.

G. W. COFFEY, Supt.

WAR EAGLE COAL COMPANY.

Series No. 1269. *Pappoose Mine*.—This mine, located at War Eagle on the Turkey Creek branch of the N. & W. R. R., is a drift opening operating the Kittanning seam. Ventilation produced by two furnaces is fairly good. Roof is good; drainage good. Doors and stoppings in fair condition. Rules are posted. Stretchers and safety lamps are kept at the mine. Second opening meets lawful requirements.

G. W. COFFEY, Supt.

J. K. COFFEY, Mine Foreman.

WAR EAGLE COAL COMPANY.

Series No. 1270. *Mephisto Mine*.—This mine, located at War Eagle on the Turkey Creek branch of the N. & W. R. R., is a drift opening operating the Kittanning seam. Ventilation produced by two furnaces is fairly good. Roof is good; drainage good. Doors and stoppings in fair condition. Rules are posted and stretchers and safety lamps are kept on hand. Second opening meets lawful requirements.

G. W. COFFEY, Supt.

J. A. EARNEST, Mine Foreman.

Series No. 1271. *War Eagle Mine*.—This mine, located at War Eagle on the Turkey Creek Branch of the N. & W. R. R., is a drift opening in the seam of coal overlying the Kittanning. It has been idle all year and no inspection has been made.

G. W. GOFFEY, Supt.

MARGARET MINING COMPANY.

Series No. 1272. *Margaret No. 1 Mine*.—This mine, located at War Eagle on the Turkey Creek branch of the N. & W. R. R., is a drift opening in the seam overlying the Kittanning. It has been idle all year and no inspection made.

S. T. LAMBERT, Supt.

Series No. 1273. *Margaret No. 2 Mine*.—This mine, located at War Eagle on the Turkey Creek branch of the N. & W. R. R., is a drift opening in the Kittanning seam. Ventilation produced by a Crawford & McCrimmon fan is good. Roof is good; drainage good. Doors and stoppings fair. Rules are posted and stretchers and safety lamps are kept on hand. Second opening meets lawful requirements.

S. T. LAMBERT, Supt.

H. H. KELLEY, Mine Foreman.

APPENDIX.

APPENDIX.

EXAMINATION OF CANDIDATES FOR DISTRICT MINE INSPECTORS.

Owing to the large number of applications received for the positions of District Mine Inspector, and there being only twelve inspectorships to fill, it was deemed advisable to select from the list those who by training and experience were best fitted for the duties of the office. The plan of requiring the candidates to undergo an examination touching upon their qualifications, adopted by the former Chief of the Department, was thought to be worthy of a continuance.

Although the laws of the state make no provision for a Board of Examiners, the duty devolves upon the Chief to appoint the District Inspectors, and as he could not personally know of the qualifications of each applicant it was decided, after a conference with the Governor, that an Examining Board would be a proper means by which the qualifications of the candidates could be determined.

On May 14, 1909, the Chief named the following persons to comprise a Board of Examiners:

Messrs. J. W. Heron, Chairman,	D. C. Kennedy,
C. E. Krebs,	Benj. Davis,
A. J. Stewart,	John Phillips.

The Board upon convening appointed Mr. J. E. Paul its Secretary.

It was advertised throughout the state that examinations would be held to pass upon the qualifications of candidates for the position of District Mine Inspector.

On May 20, 21st, and June 7, 1909, the Examining Board convened and examined sixty-nine applicants, of which thirty-one, or nearly 45% of the entire number, obtained the required percentage making them eligible to appointment.

The following is a list of those who successfully passed the examination:

Blankensopp, L. L.,	Mitchell, Samuel,
Boyd, Thomas,	Muir, Robt. Y.,
Bell, John,	Nicholson, Wm.,
Blake, Jesse,	*Parsons, F. E.,
Combs, G. B.,	Pinkney, H. H.,
Clark, John,	Plaster, W. B.,
Crichton, Wm.,	Phillips, D. R.,
*Grady, P. A.,	Roach, L. R.,
*Hill, Bonner H.,	Reid, Wm.,
Humphries, John,	Smith, Lemuel,
*Henry, Earl A.,	Schoew, Karl F.,

Holliday, L. B.,
Jackson, J. H.,
Keefe, W. J.,
Lee, W. D.,
Mitchell, Arthur.

Thomas, Jesse,
Vaughan, L. D.,
Wallace, R.,
Warner, Wm.

From the above list the following were appointed as District Mine Inspectors:

Karl F. Schoew,
L. D. Vaughan,
W. B. Plaster,
xF. E. Parsons,
xE. A. Henry,
xReappointed.

xB. H. Hill,
L. B. Holliday,
R. Y. Muir,
Arthur Mitchell,
Wm. Nicholson,
xP. A. Grady.



Mine Inspectors Examining Board.

Reading from left to right, standing: Benj. Davis, J. W. Heron, A. J. Stewart; sitting: D. C. Kennedy, J. E. Paul, C. E. Krebs, John Phillips.

In the pages following will be found a tabulated statement of the prosecutions for the year ending June 30th, 1909.

A report of the foreign experts from Belgium, Germany and England.

A Bill to amend and re-enact certain sections of the existing Mine Laws.

Features of the Mine Laws as they now exist.

Opinion of Attorney General.

Report of Explosions.

Correspondence relating to the discontinuance of Safety Lamps in the Rush Run and Red Ash mines.

Discontinuance of Bulletin.

Prosecutions.

Kanawha River Locks and Dams.

In the month of October, 1908, we were honored by a visit from three foreign mining experts, who had been invited by the United States Government officials to make a tour of Inspection through the typical mines of the different states, and to submit a report, embodying therein such recommendations as they deemed necessary for the provision of greater safety in mines and the prevention of accidents. This report follows:

REPORT OF FOREIGN EXPERTS ON THE PREVENTION OF MINE EXPLOSIONS.

Thursday, October 22, 1908.

PREVENTION OF MINE EXPLOSIONS.

Foreign Experts Make Report to Secretary of Interior.

Washington, D. C., October 22, 1908.—(Special.)—The Geological Survey issues today a report on the prevention of mine explosions, submitted by three foreign experts, Victor Watteyne, inspector-general of mines, Belgium; Carl Meissner, councillor for mines, Germany; and Arthur Desborough, H. M. inspector of explosives, England. These engineers have been in the United States for six weeks, coming at the invitation of the United States Government to assist the Federal authorities in beginning the investigations authorized at the last session of Congress. The report was presented to Secretary Garfield, who transmitted it yesterday to President Roosevelt, stating that the report with its recommendations will be of the highest importance in aiding Congress and the different state governments in providing legislation to insure more efficient and careful operation of coal mines, by the adoption of mining methods and safety appliances that will materially aid in preventing such terrible losses of life as have occurred through mine explosions in recent years.

In view of the fact that this report is the first result of the Geological Survey's scientific and practical study of the conditions under which more than half a million miners work, the President ordered its im-

mediate publication and distribution among the coal-mine operators and miners of the country. The report is addressed to the Secretary of the Interior, and with its recommendations is as follows:

Report.

In response to your request that we cooperate with the United States Geological Survey in the inauguration of its investigations looking to the prevention of mine explosions, and that we submit for the consideration of those connected with the coal-mining industry in the United States such recommendations as experience in our own countries and observation among American coal mines indicates may be useful in providing for greater safety, we beg to submit the recommendations given below.

Since coming to the United States, we have given careful attention to and approve the investigations in relation to this subject begun by the Geological Survey. We have visited typical mines in the more important coal fields of the United States, and have discussed the mining problems with many coal operators, miners, and state inspectors.

To be effective, investigations for the benefit of mining must be continuous. The opening up of new mines, the deepening of old mines, the meeting with new conditions, the changing of explosives, and the inauguration of new processes and methods will call for continuous investigations, to be followed by continuous educational work.

Our investigations and recommendations relate primarily to questions of safety in mining; but in this connection we have been greatly impressed with another closely associated phase of the industry, viz, the large and permanent loss of coal in mining operations in many portions of the United States. This is a serious, permanent, and national loss. It seems to be a natural outcome of the ease with which coal has been mined in the United States and the enormously rapid growth of the industry.

The active competition among the operators and the constant resulting effort to produce cheaper coal has often naturally led to the mining of only that part of the coal which could be brought to the surface most easily and cheaply, leaving under ground, in such condition as to be permanently lost, a considerable percentage of the total possible product. Certainly much of this loss can be prevented through the introduction of more efficient mining methods, such as the long-wall system, more or less modified, the flushing method, (See "H," 7.)

In the preparation of these recommendations we have recognized fully the great differences between the mining conditions in Europe and those in America, where the industry has developed so rapidly that thorough organization has not yet been possible; where a large percentage of the men entering the mine are unfamiliar either with mining methods or the English language; and where the price of coal at the mine is less than half that in Europe. Nevertheless, we be-

lieve that these recommendations will be found useful in the further development of the American coal-mining industry for safety and efficiency. The cordial reception everywhere accorded us leads us to believe that these recommendations will be received by the operators and miners in the same spirit of good will as that in which they have been prepared. But the success of this movement for greater safety and efficiency will depend upon the hearty and patient cooperation of the operators and the miners, working together for the accomplishment of this purpose.

RECOMMENDATIONS.

A. Selecting the Explosives to be Used.

(1) We recommend that the Government of the United States examine the explosives now and hereafter used in mining, with a view to eliminating the more dangerous explosives and to improving and standardizing such explosives as may be considered most suitable for such use, these to be designated by the Government "permissible explosives."

The term "permissible explosives" is suggested for the reason that no explosives are entirely safe, and all of them develop flame when ignited; and we advise therefore against the use in the United States of the terms "safety explosives" or "flameless explosives," as these terms may be misunderstood and this misunderstanding may endanger life.

(2) We recommend that the operators and miners of coal use only such explosives as are included in a list of "permissible explosives," when the same has been published by the Government, in all mines where there is risk of igniting either dust or gas, selecting that one which their own experience indicates can be used to the best advantage under local conditions.

(3) We also recommend that investigations be conducted to determine the amount of charge of such "permissible explosives" which may be used to the best advantage under different conditions with a view to reducing danger to the minimum.

B. Carrying the Explosives Into the Mines.

(1) All explosives should be made into cartridges and placed in closed receptacles before being carried into the mine, and the quantity carried into the mine during one day by any miner should be limited as nearly as practicable to the quantity needed by him for use during that day. Handling loose explosives and making them into cartridges by an open light in the mine should be prevented.

(2) Detonators or caps should be handled with great care, and should be carried only by a limited number of responsible persons.

C. Use of Explosives in the Mine.

(1) Shooting in or off the solid should not be practiced.

(2) The depth of the shot hole should be less by at least 6 inches than the depth of the cutting or mining. The use of very deep shot holes should be avoided as unnecessarily dangerous.

(3) The overcharging of shots (the use of a larger charge than is required to do the work satisfactorily) should also be avoided as unnecessary and dangerous. The proper standardization of explosives used in coal mining will greatly facilitate the carrying out of this recommendation. (See also "A," 1.)

(4) Shots should never be tamped with fine coal or material containing coal. Clay or other suitable material should be supplied and used for this purpose.

(5) The firing of two or more shots in one working place, except simultaneously by electricity, should not be allowed until a sufficient interval has elapsed between the firings to permit an examination of the working place, in order to see whether any cause of danger has arisen.

(6) Before a shot is fired the fine coal should be removed from the working place, as far as practicable, and the coal dust on the floor, sides, and roof, for a distance of at least 20 yards from the place where the shot is to be fired, should be thoroughly wet, unless it has been demonstrated that the dust in the mine is not inflammable. (See also "E," 1.)

(7) If gas is known to occur in the mine, no shot should be fired until, in addition to the watering, an examination made immediately preceding the time for firing, by a competent person, using a lamp which will easily detect 2 per cent. of gas, has shown the absence of that amount of gas from all spaces within 20 yards of the point where the shot is to be fired.

(8) Believing that such will be one of the greatest advances which can be made in safeguarding the lives of the miners, we recommend the adoption of a system of electric shot firing, in all mines where practicable, by which all shots in the mine, or in each ventilation district of the mine, may be fired simultaneously, at a time when all miners and other employees are out of the mine.

D. Keeping the Mine Roadways Clean.

(1) The roadways of the mines should be kept as free as possible from loose coal which may be ground into dust and of rubbish in which such dust may accumulate, in order to facilitate the removal and wetting of the dust.

E. Wetting the Coal Dust.

(1) In all coal mines where explosives are used it is desirable, and in all mines containing gas it is highly important, that the dust on the

walls, timbers, and floors of the working places and roadways should be kept continually wet prior to and during the work in the mine. If, however, conditions of roof or lack of water render this general watering impracticable, at least the dust within 20 yards of each shot should be wet before each firing, and other precautions against explosions should be practiced with unusual care.

It is our opinion that a system of watering which occasionally sprinkles the floor only and leaves dry the dust on the walls and timbers of the roadways is useless and is also dangerous in that it may generate an unwarranted feeling of security against an explosion.

F. Special Precautions for Mines Containing Gas.

(1) In any mine where as much as 2 per cent of gas can be detected by suitable method only locked safety lamps of an approved type should be used so long as such condition exists or is likely to recur.

All safety lamps should be maintained in good condition, cleaned, filled, kept in a special room at surface, and carefully examined both when delivered to the miner and when returned by him at the close of each day's work. A defective safety lamp is especially dangerous because of the false feeling of security it engenders.

In the filling of lamps with benzine or other low-flash oils, which should always be done at the surface, special precautions against fire or explosions should be taken.

G. Use of Electricity.

(1) Electricity in mining operations offers so many advantages, and has been so generally adopted, that no reasonable objection can be made to its use under proper restriction. The electrical equipment, however, should be installed, maintained, and operated with great care, and so safeguarded as to minimize danger from fire or shock. The fact that the effectiveness of some insulating materials is soon destroyed in most mines should not be lost sight of.

We recommend the following precautions: For distribution underground the voltage should not exceed 650 direct current or 500 alternating current, these voltages being intended for transmission to machinery operating at 500 volts direct current and 440 volts alternating current, respectively. Even lower voltages are preferable. The trolley wires should be installed in such manner as to render shocks least likely; that is, placed either high enough to be beyond easy reach or at one side of the track and properly protected.

Where current at a potential of more than 650 volts is employed for transmission underground, it should be transmitted by means of a completely insulated cable; and where a lead or armored covering is used, such covering should be grounded.

In all mines having electric installation special precautions should be taken against the setting on fire of coal or timber. Inclosed fuses

or cutouts are recommended, and each branch heading should be so arranged that the current may be cut off when necessary.

No live electric wire should be permitted in that part of any mine in which gas is found to the amount of 2 per cent.

In all mines producing gas in dangerous quantities, as indicated by a safety lamp which will detect 2 per cent. of gas, the working places should be examined for gas by a qualified man, using such a lamp, immediately before any electric machine is taken or operated there.

H. Precautions Against Miscellaneous Accidents.

(1) In all new construction, shaft lining and superstructures about the entrance of the shaft (or slopes or drifts) should be built as far as practicable of noncombustible materials.

About the entrances to mines every possible precaution should be taken to prevent fires or the injury of the equipment for ventilation and haulage. Ventilating fans should be placed at one side of the mine opening, and hinged doors or light timbering should render easy the escape of the explosive force in direct line of the shaft or slope.

Proper precautions should be taken for immediately preventing the entrance into the mine of heat and gases and for facilitating the escape of the men in case of surface or shaft fires.

(2) The surface equipment for handling the coal should be so arranged as to prevent coal dust from entering the mine shaft.

(3) In all new mines, and in all old mines as far as practicable, suitable man roads should be provided for the men separate from the main haulage roads.

(4) In connection with the system of ventilation it is recommended that in the more frequented roads connecting the intake with the return air courses, two doors be provided, these doors to be placed at such a distance apart that while one is open the other is closed.

(5) In view of the large number of accidents from falls of coal or roof, under the existing practice with single props, more attention should be given to the introduction in mines where the roof is bad of better systems or timbering, such as have been long in use with economy and safety in many well managed mines.

(6) In undercutting coal by hand, the premature fall of the coal should be prevented by sprags or other suitable supports.

(7) We believe that the difficulties and dangers encountered in the working of coal seams which are thick and steeply pitching, or of which the coal is highly inflammable in character or subject to firing from spontaneous combustion, and in mines where the subsidence of the surface must be avoided, may be successfully and economically overcome in many cases through the adoption of the flushing system of mining—that is, the filling with sand or other similar materials of the space from which the coal is removed. This system originated

in the United States and is now successfully practiced in portions of Germany, Austria, Belgium, and France.

I. Mine Supervision and Inspection.

(1) We can not too strongly emphasize the fact that thorough discipline about the mine is absolutely essential to safety, and that thorough discipline can be brought about only through the hearty cooperation of the operators, the miners, and the State.

(2) We are of the opinion that the responsibility for safety in the mine should primarily rest with some person, such as the manager or superintendent, clothed with full authority; and that such person can greatly facilitate the attainment of safety through the employment of a sufficient number of foremen, and also of one or more inspectors whose special duty it shall be to see that the regulations are strictly enforced.

(3) The State can not exercise too much care concerning the experience, technical training, and selection of its inspectors. Their positions should be made independent of all considerations other than that of efficiency; and their continuance in the service should be co-existent with good behaviour and proper discharge of official duty.

J. Training for Mine Foremen, Inspectors, etc.

We are of the opinion that the cause of both safety and efficiency in coal mining in the United States would be greatly aided through the establishment and maintenance in the different coal regions of special schools for the training of fire bosses, mine foremen, superintendents, and inspectors. The instruction in such schools should be practical rather than theoretical.

The work of these schools would supplement most effectively that of the colleges already established in many parts of the country for the more thorough training of mining engineers.

A BILL PRESENTED TO THE LEGISLATURE OF 1909 BY THE DEPARTMENT OF MINES TO AMEND AND RE-ENACT CERTAIN SECTIONS OF THE EXISTING MINING LAWS, BUT NO ACTION WAS TAKEN THEREON.

A Bill to amend and re-enact sections 1, 2, 4, 8, 11, 13, 15, 23 and 25 of an act of the Legislature of West Virginia passed February 27, 1907, and entitled,

“An act to create the department of mines, to provide a more efficient system of mine inspection, to re-district the state for the purpose of mine inspection, and to regulate mining operations.”

Which act appears as chapter 78 of the printed acts of the Legislature of West Virginia passed at the regular session of 1907.

Be it enacted by the Legislature of West Virginia:

That sections 1, 2, 4, 8, 11, 13, 15, 23, and 25 of an act of the Legislature of West Virginia passed February 27, 1907, and entitled,

"An act to create the department of mines, to provide a more efficient system of mine inspection, to re-district the state for the purpose of mine inspection, and to regulate mining operations,"

(Which act appears as chapter 78 of the printer acts of the Legislature of West Virginia passed at the regular session of 1907), be and the same are hereby amended and re-enacted so as to read as follows:

Sec. 1. There is hereby created an executive department to be known as the "Department of Mines," which shall have for its purpose the supervision of the execution and enforcement of all State laws pertaining to the inspection of mines, heretofore and hereafter enacted for the safety of persons employed within or at the mines within this State, and the protection of mine property and other property used in and in connection therewith; and the said department of mines shall be in charge of an official to be known as the chief of the department of mines, who shall have full charge of said department, and who shall superintend and direct the inspection of mines as herein provided and as provided by any other state law not in conflict with this act.

The chief of the department of mines shall keep a record of all inspections made by himself and the district mine inspectors, which shall be a permanent record properly indexed; the record of the department of mines shall at all times be open to inspection by any citizen of this state, and upon the request of the Governor of the State the chief of the department of mines shall lay said records before said officer, also maps of mines furnished the chief of the department of mines by the district mine inspectors; any chief of the department of mines who shall violate any of the provisions of this act shall, upon conviction, be fined not less than twenty-five nor more than two hundred dollars, and may in the discretion of the court be imprisoned in the county jail not exceeding one year.

The chief of the department of mines shall be a male citizen of West Virginia, and shall be a competent person, having had at least eight years' experience in the working, ventilation and drainage of coal mines in this state and having a practical and scientific knowledge of all noxious and dangerous gases found in such mines, and to enable the said chief of the department of mines to perform his duties he shall have the same authority to visit, enter and examine, the mines as is conferred upon the district mine inspector, and he shall have the authority to call the assistance of any of the district mine inspectors to any district in the State.

The present Chief of the Department of Mines and all present District Mine Inspectors shall continue in office with their existing salaries and allowances for expense to be paid as now provided by law until the first day of September, 1909, or until their successors shall be duly appointed and qualified, unless sooner removed as provided by law. And the Governor of this State shall with the consent of the Senate appoint a Chief of the Department of Mines whose term of office shall begin with the first day of September, 1909, and shall be

for four years, or until his successor shall be duly appointed and qualified; and the Governor with the consent of the Senate shall each four years thereafter appoint a Chief of the Department of Mines for the term of four years or until his successor be appointed and qualified, but no person shall be appointed Chief of the Department of Mines to take office after the 31st day of August, 1909, except from the list of names to be certified to by the Governor of the Board of Examiners as hereinafter provided for.

The salary of the Chief of the Department of Mines shall be five thousand dollars per annum and traveling expenses which shall be paid monthly out of the State Treasury upon a requisition upon the State Auditor certified by the Chief of the Department of Mines.

The Governor of this State shall within sixty days after this act takes effect appoint a Board of Examiners consisting of four members, two of whom shall be coal operators and the remaining two shall be mining engineers of known reputation; whose term of office shall commence on the first day of July, 1909. One member shall be appointed for a term of three years; one for a term of six years; one for a term of nine years; and one for a term of twelve years, and as each term of office expires the Governor shall appoint a successor whose term of office shall be twelve years. Any vacancy occurring in this Board, through death or otherwise, shall be filled by the Governor who shall appoint a successor to serve for the unexpired term.

The said Board of Examiners shall be permitted to engage the services of a clerk, and they, together with the clerk shall each receive the sum of five dollars per day for every day they are actually engaged in the discharge of their duties and mileage at the rate of six cents per mile from their home to the place of meeting and return, by the nearest practicable railway route.

The duties of this Board of Examiners shall be to examine candidates for the office of deputy mine inspector, and three of them shall agree in their recommendation of all candidates to the chief of the department of mines. No candidates shall be so recommended who has not answered correctly at least ninety per centum of the questions. The names of the applicants, the questions asked and answered thereto shall be sent to the Chief of the Department of Mines. It shall also be the duty of the Board of Examiners to furnish all successful candidates a certificate setting forth that they have satisfactorily passed such examinations and are eligible to appointment to the office of district mine inspector; and persons receiving such certificate shall be entitled to mine foreman's certificate of the first class without further examination and all applicants for such examination must have a knowledge of the different systems of working coal mines and must give satisfactory evidence to the Board of Examiners of having had experience in mines in which noxious gases are generated.

The Board of Examiners shall meet in the City of Charleston the second Monday in May in each year and at such other times in said city as the Chief of the Department of Mines shall require. Notice of such examinations as may be required by the Chief of the Depart-

ment of Mines shall be given by him by publication in at least one paper of general circulation published in each of the mining districts.

Before entering upon the discharge of their duties hereunder each of the said examiners shall be sworn to a faithful discharge of his duty.

No person shall be appointed a deputy mine inspector to take office after the 31st day of August, 1909, unless he holds a certificate issued by the Board of Examiners as aforesaid.

It shall also be the duty of said Board of Examiners to certify to the Governor upon demand the names of such persons as shall in their judgment be qualified to fill the office of Chief of the Department of Mines; and no person shall be appointed Chief of the Department of Mines to take office after August 31st, 1909, except from names as certified as aforesaid.

Sec. 2. Prior to the first day of August, 1909, the Chief of the Department of Mines shall appoint fifteen district mine inspectors so as to give one inspector for each mining district in the State as the same will exist on and after the first day of September, 1909, whose term of office shall begin on said last named day and continue for four years or until their successors be appointed and qualified unless sooner removed as provided by law; and he shall direct or prescribe in which of said districts each of said inspectors shall serve; and the Chief of the Department of Mines shall each four years thereafter appoint one inspector for each of said districts.

No person shall be eligible to the office of district mine inspector except as herein before provided. The salary of each district mine inspector shall from after the first day of September, 1909, be two thousand five hundred dollars per annum, and actual expenses; such salary and expenses shall be paid monthly out of the State Treasury upon the approval of the Chief of the Department of Mines; *provided*, that before payment of such expenses shall be made to the inspector he shall file an account of such expenses, verified by his affidavit, showing that they accrued in the discharge of his official duties; every person so appointed district mine inspector must have attained the age of thirty years and must be a citizen of West Virginia, and he shall not while in office, be interested as owner, operator, agent, stockholder, superintendent or engineer of any coal mine, and he shall be of good moral character and temperate habits. An inspector of mines shall be removed from office by the Chief of the Department of Mines of this State for incompetency, neglect of duty, drunkenness, malfeasance and for other good causes.

Each of the district mine inspectors shall report in writing monthly to the Chief of the Department of Mines the number and condition of all mines inspected by him during each month and shall deliver to the operator or operators of each mine inspected a certificate of inspection, and shall post a duplicate certificate at a prominent place of the operating company where it may be conveniently read by any of the mine employes; said duplicate certificate shall remain posted until a subsequent certificate is issued by the district mine inspector,

and he shall visit each mine in his district at least once in every sixty days or oftener if called upon in writing by ten men engaged in any one mine, or the owner, operator or superintendent of such mine, and make a personal examination of the interior of all mines, and outside of the mine where any danger may exist to the workmen, in their respective districts, and shall particularly examine into the condition of mines as to ventilation, drainage and general safety and shall make a report of such examinations, and he shall see that all the provisions of the mining statutes are strictly carried out; and it shall be unlawful for any district mine inspector to appoint any deputy or other person to do and perform any work required of such inspector, any mine inspector, failing to comply with the requirements of this act shall be guilty of a misdemeanor, and upon conviction thereof shall be fined not less than one hundred dollars and not more than five hundred dollars and be dismissed from office, the chief of the department, of mines and the district mine inspectors shall each upon entering upon the discharge of his duties take oath of office prescribed by the constitution and shall furnish bond in the sum of two thousand dollars, with security to be approved by the Governor conditioned upon the faithful discharge of his duty, a certificate of which oath and bond shall be filed in the office of the Secretary of State. Vacancies in the office of the department of mines or district mine inspector shall be filled by appointment for the unexpired term.

Sec. 3. Each mine inspector shall, for each year ending the thirty-first day of August, make a written report to the Chief of the Department of Mines of his proceedings, stating therein the number of mines in his district, the improvements made at the mines, the extent to which this act is obeyed or violated and such other information in relation to the mines and mining as he may deem of public interest, or as may be required of him by the Chief of the Department of Mines; he shall also suggest or recommend such legislation on the subject of mining as he may think necessary; such reports shall be filed with the Chief of the Department of Mines on or before the thirtieth day of November next succeeding the year for which it was made; the Chief of the Department of Mines shall annually make a full and complete written report of his proceedings to the Governor of the State for the year ending the thirty-first day of August; such report shall include the reports of the district mine inspectors, the number of visits and inspections made in the State by the district inspectors, the quality of coal and coke produced in the State, the number of men employed, number of mines operated, ovens in and out of blast, improvements made, prosecutions, etc., and such other information in relation to the subject of mines, mining inspection and needed legislation as he may deem of public interest and beneficial to the mining interests of the State; such report shall be filed with the Governor on or before the thirtieth day of December next succeeding the year for which it was made, and such report shall be printed upon the requisition of the Governor and in order that the report shall be annually printed and distributed among the operators, miners and citizens of

the State, the sum of fifteen hundred dollars annually is hereby appropriated out of the State Treasury for this special purpose.

Sec. 4. The Chief of the Department of Mines by and with the approval of the Governor shall, prior to the first day of July, 1909, divide the state into fifteen mining districts in such a manner as to equalize as far as practicable the work of each district inspection which division shall go into effect on the first day of September, 1909, but the present mining district shall continue until said last named day.

Sec. 5. The operator or agent of every coal mine shall, within six months after the passage of this act, make or cause to be made, unless already made and filed, an accurate map or plan of such mine, on a scale to be stated thereon of one hundred or two hundred feet to the inch; such map or plan shall show the openings or excavations, the shafts, slopes, entries, airways with darts or arrows showing the direction of air currents, headings, rooms, pillars, etc., and such portions of such mine or mines as may have been abandoned, the general inclination of the coal strata, and so much of the property lines and the outcrop of the coal seam of the tract of land on which said mine is located, and may be within one thousand feet of any part of the workings of such mine; a true copy of such map or plan, shall within six months aforesaid be delivered by such operator to the inspector of his district, to be preserved among the records of his office and be turned over to his successor in office; but it is provided that in no case shall any copy of the same be made without the consent of the operator or his agent; and the original map, or a true copy thereof, shall be kept by such operator at the office of the mine, and open at all reasonable times for the examination and use of the inspector, and such operator shall, twice within every twelve months, and not more than seven months apart, while the mine is in operation, cause such mine to be surveyed and the map thereof extended so as to accurately show the progress of the workings, the property lines and the outcrop as above provided and he shall immediately thereafter notify the inspector of his district who shall forward to the said operator or his engineer, the maps held by such inspector to be extended as above required.

Sec. 6. If the operator or agent of any coal mine shall neglect or fail to furnish to the mine inspector of his district any copy of map or extension thereof as provided in preceeding section of this act, the mine inspector is hereby authorized to cause a correct survey and map or plan of said coal mine or the extension thereof to be made at the expense of the operator of such mine, the cost of which shall be recoverable from said operator as other debts are recoverable by law; and if at any time the Chief of the Department of Mines have reason to believe that such map or plan or extension thereof furnished in pursuance of the preceding section be materially incorrect such as will not serve the purpose for which it was intended, he may have survey and map or plan or the extension thereof made or corrected and the expense of making such survey and map or plan or extension thereof under the direction of said chief of the department of Mines shall be paid by the operator and the same may be collected as other debts

are recoverable by law; and if found incorrect the expense thereof is to be paid by the State.

Sec. 7. After the passage of this act each operator of a coal mine, before making any additional mine opening, shall furnish the district mine inspector of the district in which the mine is located, a plan of the proposed openings and mine development.

Sec. 8. Within thirty days after this act becomes a law, the Chief of the Department of Mines shall appoint four Boards to be appointed from residents of the several inspection districts, to examine mine foremen and fire bosses, with powers and duties as hereinafter provided, whose term of office will begin on the first day of July, 1909, and be for two years; and like Boards shall be appointed in the same manner, during the month of May, 1911, and every four years thereafter, whose term of office shall begin on the first day of July next after the appointment thereof, and be for four years. All vacancies on said Board shall be filled for the unexpired term by appointment in the same manner as the original appointments are made.

Each of said Boards shall be composed of three members, consisting of a district mine inspector and a practical operator, manager or superintendent, and a practical mining engineer. Said district mine inspector shall be the President of said board unless the other members otherwise direct.

Each person appointed a member of said board shall, before entering upon the discharge of his duties, take and subscribe the oath prescribed by law, which shall be filed in the office of the Chief of the Department of Mines. The duties of said board shall be to examine persons desiring to become qualified to act as mine foremen or fire bosses.

Each of said boards shall, except as hereinafter provided hold four examinations each year which shall not be more than four months apart, and shall be held at such convenient and accessible places as the Chief of the Department of Mines may designate. Every person desiring to take examination for this purpose of obtaining a certificate as mine foreman or fire boss shall file at the office of the Chief of the Department of Mines his written request to that effect, and before holding any examination the Chief of the Department of Mines shall give every such applicant at least ten day's notice of the time and place of such examination, and of the first and second examinations held under this law, the Chief of the Department of Mines shall give at least fifteen day's notice to each and every operator or superintendent in the State employing as many as ten miners, which notice, or a copy thereof, when received by such operator or superintendent shall be posted at some conspicuous place about every mine operated by him or under his control in which as many as ten miners are employed. Nothing in this section shall prevent any applicant from appearing at any examination held in any district in this State and taking said examination although no prior application to take same may be made. After four examinations are held in this State as hereinbefore provided, no other examination shall be held until at least ten applications for

such examinations be filed with the Chief of the Department of Mines, unless the Chief of the Department of Mines so directs.

Said examinations shall be for the purpose of ascertaining the qualifications of persons desiring to act as mine foremen, or as fire bosses in the coal mines of the State; and for the purpose of this act mine foremen are divided into two classes to be known as mine foremen of the first class, and mine foremen of the second class; and the certificate that may be issued to the first class shall be known as mine foreman's certificate of the first class, and those that may be issued to the second class shall be known as mine foreman's certificate of the second class; but there shall be but one class of fire bosses and certificates that may be issued to them shall be known as fire bosses' certificates. A mine foreman's certificate of the first class shall show that the party to whom it is issued is of good character and temperate in habits and has such practical experience and knowledge of mining as the law requires and is qualified and authorized to perform the duties of mine foreman or fire boss in any coal mine in this state; and a mine foreman's certificate of the second class shall show that the party to whom it is issued is of good character, and temperate habits and has such experience and knowledge of mining as the law requires and is qualified and authorized to perform the duties of mine foreman in any coal mine in this State not producing gas in dangerous quantities, and to perform the duties of an assistant mine foreman in any mine in this State.

A fire bosses' certificate shall show that the party to whom it is issued is of good character and temperate habits and has such experience and knowledge of mining as the law requires, and is qualified and authorized to perform the duties of a fire boss in any coal mine of this State; said examinations may be written, or partly written and partly oral, as the Chief of the Department of Mines may direct, and in every examination the questions asked shall be such as will enable the board to determine from the answers whether the applicant is qualified to act in the capacity desired by him, which questions shall cover the conditions met with and the precautions which should be observed and so much of the mining laws of this State as may be applicable as shall appear to be necessary for the protection of the lives and the health of the employes and the property of the employer or owner in and around the coal mines of this State, but no questions of a technical character not necessary to test the qualifications of the applicant shall be asked. Immediately following each examination the board holding the same, shall, upon a form to be furnished by the Chief of the Department of Mines, certify the result of such examination to the Chief of the Department of Mines, giving the name and address and a statement as to the qualifications, character and habits of each applicant who has successfully passed such examination and is entitled to a certificate as herein provided, together with such other information as may be required by the Chief of the Department of Mines, and the Chief of the Department of Mines shall thereupon issue to the person so named the proper certificates to which each is

entitled, which certificates shall be signed by the Chief of the Department of Mines, and bear the seal of his office.

No examination shall be held under this law before the first day of July, 1909; and no mine foreman or fire boss shall be required to have a certificate as herein provided till after five examinations have been held; and no person who shall be employed as mine foreman or fire boss in any mine in this State at the time this law takes effect shall be required to take an examination so long as he may continue in such employment in such mine (or in any other mine of the same class operated by the same employer for whom he has been working) but to every such person if he be found of good character and of temperate habits and to have had such experience in and around coal mines of this State as the law requires, a service certificate shall be issued. The district mine inspector of each district shall, within sixty days after this law takes effect, certify to the Chief of the Department of Mines a list showing the names and addresses of each mine foreman and fire boss in his district, and name and address of the operator for whom he is working and the number or designation of the mine wherein he is employed, and whether such mine produces dangerous gases, and such other information as he may be required by the Chief of the Department of Mines pertaining to the character and habits and experience in and around the coal mines of this State of each and every mine foreman and fire boss and such other information as he may be required by the Chief of the Department of Mines. And the Chief of the Department of Mines shall within ninety days thereafter issue to every such mine foreman, and fire boss found to be of good character and temperate habits, and to have had such experience in and around the coal mines of this State as the law requires, a service certificate of the class to which he is entitled, which certificate shall be signed by the Chief of the Department of Mines and bear the seal of his office. And no examination or other certificate shall be required of the party holding such certificate as long as he continues to work in the mine in which he is then employed (or in any other mine of the same class by the same employer.) Mine foreman and fire boss's certificate or similar certificate issued under the authority of the laws of another State may in an emergency when approved by the Chief of the Department of Mines have the same force and effect in this State as if issued pursuant to laws thereof, provided, however, that the length of the time granted shall not extend more than ten days beyond the next meeting of an examining board after he has been employed.

The district mine inspectors occupying positions on said boards shall receive no other compensation for their services in holding examinations and certifying the results thereof, than that provided by the law as their salary as such inspectors and their traveling expenses. The other two members of said Board shall each receive as compensation for their services five dollars per day and their necessary traveling expenses each day actually employed in holding such examinations and certifying the results thereof and going to and from the places of examinations; provided, that neither of said members shall receive com-

pensation for holding more than four examinations each year nor for more than five days at each of said examinations. The compensation and expenses so to be paid, shall be paid out of the State Treasury upon warrants drawn upon the Auditor properly certified by the President of the Board. Each applicant before being examined shall pay the examining board the sum of one dollar, and one dollar additional for each certificate granted, which sum shall be paid into the State Treasury by the Chief of the Department of Mines.

Any members of the Boards herein provided may be removed by the Chief of the Department of Mines after receiving notice and an opportunity to be heard, for neglect of duty, incompetency, drunkenness, or malfeasance in office.

Any certificate issued under this section may be revoked upon the application of the Chief of the Department of Mines, a district mine inspector or any interested party, by the Circuit Court of the county wherein the party holding the same resides or is employed, or the judge thereof in vacation, upon proof before such court or judge thereof that the person to whom it was issued is not of good character or is of intemperate habits or is otherwise disqualified or is not competent to discharge the duties required of an employe under such certificate.

The provisions of this act covering examination of mine foreman and fire bosses shall be applicable to assistant mine foreman if left in sole charge of any mine in case of an emergency for more than sixty days at any one time.

Any operator of a coal mine in this State who shall employ a mine foreman or fire boss required to hold a certificate under this act and who does not, at such time, hold either a service or other certificate as herein provided, shall, upon conviction thereof be fined not less than one hundred dollars or more than five hundred dollars. And any person securing and attempting to secure employment as a mine foreman or fire boss by presenting a certificate belonging to another, or a certificate fraudulently obtained, shall upon conviction, be fined not less than one hundred dollars nor more than five hundred dollars, and shall be imprisoned in the county jail not less than thirty days or more than six months.

From and after the passage of this act, it shall be the duty of the mine foreman or the assistant mine foreman of every coal mine in this State to see that every person employed to work in such mine shall, before beginning to work therein, be instructed as to the particular danger, incident to his work in such mine, and furnish a copy of the mining law and rules of such mine.

Every inexperienced person so employed shall work under the direction of the mine foreman, his assistant or such other experienced worker as may be designated by the mine foreman or assistant until he is familiar with the danger, incident to his work, and it shall be unlawful for the operator, agent or mine foreman of any coal mine, to employ any person to work in said mine, or permit any person to be in said mine for the purpose of working therein, unless they are

in communication with at least two openings or outlets, separated by natural strata, of not less than one hundred feet, in breadth, if the mine be worked by shaft, and of not less than fifty feet in breadth at the outlets, if worked by slope or drift; to each of said outlets there shall be provided for the interior of the mine, a safe and available roadway properly drained, which shall at all times, while the mine is in operation, be kept from all obstructions that might prevent travel thereon in case of an emergency, and if either of said outlets be by shaft, it shall be fitted with safe and available appliances, such as stairs or hoisting machinery, which shall at all times, when the mine is in operation, be kept in order and ready for immediate use, whereby persons employed in the mine may readily escape in case of an accident.

This section shall not apply to any mine while work is being prosecuted with reasonable diligence in making communication between said outlets, necessary repairs and removing obstructions, so long as not more than twenty persons are employed at any one time in said mine; neither shall it apply to any mine, or part of a mine, in which a second outlet has been rendered unavailable by reason of the final robbing of pillars, preparatory to abandonment, so long as not more than twenty persons are employed therein at any one time.

For violation of this section the operator, agent or mine foreman, shall, upon conviction, be fined not less than fifty nor more than five hundred dollars or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

Sec. 9. The operator or agent of every coal mine worked by shaft shall forthwith provide, and hereafter maintain, a metal tube from the top to the bottom of such shaft suitably adapted to the free passage of sound through which conversation may be held between persons at the top and at the bottom of the shaft, also the ordinary means of signalling, and an approved safety catch and a sufficient cover overhead on every carriage used for lowering or hoisting persons, and at the top of the shaft an approved safety gate, and an adequate brake on the drum of every machine used to lower or hoist persons in such shaft; and the said operator or agent shall have the machinery used for lowering or hoisting persons into or out of the mine kept in safe condition and inspected once in each twenty-four hours, by some competent person; and there shall be cut out or around the side of the hoisting shaft or driven through the solid strata at the bottom thereof a traveling way of not less than five feet high and three feet wide to enable a person to pass the shaft in going from one side of it to the other without passing over or under the cage or other hoisting apparatus.

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Any operator or agent who shall fail or refuse to comply with the requirements of this section shall be guilty of a misdemeanor, and upon conviction, shall be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than thirty days nor more than one year, in the discretion of the court.

Sec. 10. No operator or agent of any coal mine worked by shaft

or slope, shall place in charge of any engine, used for lowering into or hoisting out of said mine persons employed therein, any but competent and sober engineers; and no engineer in charge of such machinery shall allow any person except such as may be deputed for that purpose by the operator or agent, to interfere with any part of the machinery; and no person shall interfere with or intimidate the engineer in the discharge of his duties; and in no case shall more than ten persons ride on any cage or car at one time, and no person shall ride on a loaded cage or car in any shaft or slope.

All slopes, engine-planes or motor roads used by persons in any mine shall be made of sufficient width to permit persons to pass moving cars with safety, or refuge-holes of ample dimensions, and not more than sixty feet apart, and shall be made on one side of said slope, engine-plane or motor roads; such refuge-holes, shall be kept free from obstructions, and the roof and side thereof shall be made secure and be kept white-washed at all times; no person shall travel to or from his work upon any slope, engine-plane or motor roads when other good roads are provided for that purpose.

For violation of the foregoing provisions of this section the operator or agent or miner shall, upon conviction, be fined not less than fifty, nor more than five hundred dollars, or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

Sec. 11. The operator, agent or mine foreman of every coal mine, whether worked by shaft, slope or drift, shall provide and hereafter maintain for every such mine ample means of ventilation, affording no less than one hundred cubic feet of air per minute for each and every person employed in such mine, and as much more as the district mine inspector may require, which shall be circulated around the main headings and cross-headings and working places, to an extent that will dilute, render harmless and carry off the noxious and dangerous gases generated therein; and as the working places shall advance break-throughs for air shall be made, or brattice shall be used so as to properly ventilate the face, and all the break-throughs between the intake and return air-ways not required for the passage of air shall be closed with stoppings substantially built with suitable material, which shall be approved by the district mine inspector, so as to keep the working places well ventilated.

All such break-throughs shall not exceed eighty feet apart in pillars where the height of the excavation is less than five feet, but where the height of the excavation is five feet or over and less than seven feet the break-throughs may be one hundred feet apart in pillars, and where the height of the excavation is not less than seven feet the break-throughs may be one hundred and twenty feet apart in pillars.

Not more than sixty persons shall be permitted to work in the same air currents; *provided*, that a larger number, not exceeding eighty persons may be allowed by the district mine inspector where, in his judgment, it is impossible to comply with the foregoing requirement.

No operator, agent or mine foreman shall permit any person to

work where they are unable to maintain at least one hundred cubic feet of air per minute, but this shall not be construed to prohibit the operator from employing men to make the place of employment safe and to comply with this requirement; *provided, further*, that while the repair work necessary to get the mine in condition to comply with the law, no person or persons shall be permitted to enter that part of the mine affected except those actually employed in doing the necessary repair work.

In all mines accumulation of fine, dry coal dust shall, as far as practical, be prevented, and such dust shall be kept properly watered down.

For violation of the foregoing provisions of this section the operator, agent or mine foreman, shall upon conviction, be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

In all mines of this State, except as hereinafter otherwise provided, there shall be used on and after the first day of September, 1909, practical experienced men of good habits to be known as shot-firers, who shall be selected by and be under the direction and control of the mine foreman, and who shall be in charge of all shooting and blasting in the mine, and no shot shall be discharged or fired except in the presence of and under the direction of the shot firer.

It shall be the duty of the shot-firer to see that the place is properly timbered before a shot is fired, and that the coal is properly mined; that the hole is properly placed and not drilled beyond the depth of the mining; he shall see that the holes are tamped with non-combustible material and shall take such other precautions as he may deem necessary to insure the safety of the miner. A shot-firer may fire without mining provided he has written permission so to do from the mine foreman.

The shot-firer, and such assistants as may be appointed by him, or the mine foreman, for that purpose, may carry explosives sufficient for his day's requirements, in properly insulated packages, but not exceeding twenty-five pounds at one time, and no person shall carry into a mine where shot-firers are employed therein any powder or other explosives except under direction of the mine foreman or shot-firer. The mine foreman may provide the use of lock boxes in the mine for the proper distribution of powder for the use of the shot-firer, but not exceeding twenty-five pounds at one time in any box, and not having more than one box in each shot-firer's district. Any person not a shot-firer who shall in violation of the foregoing provisions carry into or use in a mine any powder or other explosives shall, upon conviction, be fined twenty-five dollars, and in the discretion of the court be imprisoned not more than thirty days in the county jail. Any operator desiring to operate a mine without the use of shot-firer may at any time apply to the Chief of the Department of Mines for a written permit to that effect, and upon showing by satisfactory evidence that the conditions prevailing in such mine do not require

shot-firers for the safety of the persons employed therein, said operator shall be entitled to have issued to him such written permit by the Chief of the Department of Mines, which permit may be revoked at any time by said Chief when the conditions in said mine require the use of shot-firers for the safety of persons employed therein.

No miner or other person shall keep in or take into any mine exempted from shot-firers under permit as hereinbefore provided, any larger quantity of powder or other explosive than he may be reasonably expected to use in any one shift, and except where shot-firers are employed all powder shall be carried into the mine in metallic canisters of a capacity not to exceed five pounds; any person violating this provision shall, upon conviction, be fined twenty-five dollars for each offense, and in the discretion of the Court be imprisoned not more than thirty days in the county jail.

Sec. 12. In all mines generating fire damp, and where there is every reason to believe that gas will be encountered in the future workings and developments of the mine, the minimum ventilation shall be one hundred and fifty feet per minute for each and every person employed therein, and as much more as one or more of the district mine inspectors may deem requisite, and all stoppings on the main entries shall be substantially built with suitable material, which shall be approved by the district mine inspector, so as to keep the working places well ventilated; doors on main haulways shall be avoided in gaseous mines and where practicable, and overcasts built of masonry or other incombustible material, and of ample strength shall be adopted, and where doors are used they must be built in a substantial manner and hung so as to close automatically when unobstructed.

For violation of the foregoing provisions of this section the operator, agent or mine foreman, shall, upon conviction, be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

All unused workings and abandoned parts of the mines must be protected by such safeguards as will prevent the dangerous overflow of any standing gas therein, and all avenues leading thereto shall be so arranged and conducted as to give cautionary notice to all such workmen in such mines of the danger in entering therein; and in order to secure the safety of the workmen in general against the danger in said abandoned or worked-out parts of the mines, notices shall be put up and kept standing, as far as practicable, which shall afford warning to all such workmen not to enter such parts of said mine; and in addition thereto, all persons other than those specially charged with that duty, are hereby forbidden to enter such abandoned parts of such mines where gas may be found.

It shall be unlawful for any miner, after having exploded in any working place sixty cubical inches or more of powder, in one or more blasts, in any mine known to generate gas in large quantities, to enter such working place and attempt to resume work in any manner what-

ever with a naked light in less than twenty minues after the blast has been exploded.

And for violation of these provisions of this act, such person or persons so offending shall be guilty of a misdemeanor, and upon conviction thereof shall be fined not less than five dollars nor more than one hundred dollars, and be confined in the county jail not less than ten days nor more than one year. In all mines where explosive gas, or other gas of a dangerous or poisonous nature is known to generate in dangerous quantities, the workman shall be immediately instructed to withdraw from the mine in case of the stoppage of the fan, or heavy falls of the roof which may obstruct the main intake or return airway until such obstruction is removed.

Sec. 13. And it shall be unlawful in all mines where gas is being generated in dangerous quantities to use any other mechanical power for ventilating purposes except fan power, and the fan shall be kept in operation night and day unless written permission be granted by the chief of the department of mines or the district mine inspector in whose district the mine is situated; but no mine operator shall be required to keep such fan going where it is necessary to shut down for the purpose of repairing machinery or doing other work in the mines, which may make it necessary. . .

It shall be the duty of every mine owner or operator in this State whose mine or mines are known to generate fire damp or other dangerous gas or gases in dangerous quantities to employ a "fire boss" or "bosses" where necessary, who shall have a certificate of competency from the State as hereinbefore provided in section 8.

It shall be the duty of said fire boss or bosses where employed in said gaseous mines to prepare a danger signal with suitable color at the mine entrance, and no person except the mine operator or agent, and only then in case of necessity, shall pass beyond this danger signal until the mine has been examined by the fire boss, and the same or certain parts thereof reported by him to be safe; it shall further be the duty of said fire boss or fire bosses to go into all the working places of such mine or mines where gas is known to exist, or liable to exist in dangerous quantities, and carefully examine the same with a safety lamp, and do, or cause to be done, whatever may be necessary to remove from such working place or places, all dangerous gases and make the same safe for persons to enter therein as workmen in such mine or mines; such examination and removal of said gases shall begin within three hours before the time each shift commences work, and it shall be the duty of the said fire-boss at each examination to leave evidence of his presence at the face of every working place examined, and if the mine is safe he shall remove the danger signal, or change the color thereof to safety, in order that the employes may enter said mine and begin work, in the performance of the duties on the part of the fire-boss or bosses they shall have no superior officer, but all the employes working inside of said mine shall be subordinate to said fire-boss or bosses in this particular work; the fire-boss shall upon having completed the examination of the mine before each

shift, make a written record of the condition of the mine within a book having a form prescribed by the Chief of the Department of Mines, which record shall at all times be kept at the mine subject to the inspection of the district mine inspector or chief of the department of mines; it shall be unlawful for any person to enter said mine or mines for any purpose at the beginning of work upon each shift therein until such signal or warning has been given by said fire-boss or bosses on the outside of said mine or mines as to the safety thereof, as herein provided, except under the direction of said fire-boss or bosses, and then for the purpose of assisting in making said mine safe; and such person who shall enter such mine except as aforesaid, before such notice or signal has been given, or any operator, agent, or fire-boss who shall violate the provisions of this section, shall be guilty of a misdemeanor and upon conviction thereof shall be fined not less than fifty dollars nor more than five hundred dollars, or imprisoned in the county jail not less than sixty days nor more than one year.

Sec. 14. Mines in which explosive gas is generated in dangerous quantities from the coal or adjacent strata shall be worked exclusively by the use of locked safety lamps, and no open lamp nor torch shall be used except as may be permitted in writing by the district mine inspector; the safety lamps used for examining any mine or which may be used for working therein, shall be furnished by, and be the property of the operator of the mine, and shall be in the charge of some person to be designated by the "fire boss," and at least two safety lamps shall be kept at every coal mine whether such mine generates fire damp or not.

Any operator, agent or other person who shall fail or refuse to comply with the requirements of this section shall be guilty of a misdemeanor and upon conviction shall be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than thirty days nor more than one year, in the discretion of the court.

Sec. 15. In order to better secure the proper ventilation of every coal mine and promote the health and safety of persons employed therein, the operator or agent shall employ an inside overseer, to be called mine foreman, who shall hold a mine foreman's certificate as provided in section eight, and who shall keep a careful watch over the ventilating apparatus and the air-ways, traveling ways, pumps and drainage; and shall see that as the miners advance their excavations, proper break-throughs are made, to properly ventilate the mine, and that all loose coal, slate and rock over head in the working places and along the haulways be removed or carefully secured so as to prevent danger to persons employed in such mines; and that sufficient props, caps and timbers, as nearly as possible of suitable dimensions are furnished for the places where they are to be used, and such props, caps, and timbers shall be delivered and placed at such points as the rules for the government of each respective mine provides for them to be delivered; and every workman in want of props, cap pieces and timbers, shall notify the mine foreman, or

such other person who may be designated for that purpose, at least one day in advance, giving the length and number of props or timbers and cap pieces he requires; but in case of an emergency the timbers may be ordered immediately upon the discovery of any danger; and it shall be the duty of each miner to properly prop and secure his place in order to make the same secure for him to work therein. The said mine foreman shall have the dust removed from the mine so far as practicable, and the dust which may be so removed, dampened or watered down so far as practicable, and shall have all the water drained and hauled out of the working places where the same is practicable, before the miners enter, and said working places kept dry as far as practicable while the miners are at work; it shall be the duty of the mine foreman to see that the crosscuts are made as required by law; and that the ventilation shall be conducted through said crosscuts into the rooms by means of check doors placed on the entries or other suitable places, and he shall not permit any room to be opened in advance of the ventilation current. Should the mine inspector discover any room, entry, airway or other working places being driven in advance of the air current contrary to the requirements of this act he shall order the workmen working such places to cease work at once until the law is complied with.

And the mine foreman shall measure the air current at least twice each month at the inlet and outlet and at or near the faces of the advanced headings and shall keep a record of such measurements in a book having a form prescribed by the chief of the department of mines. An anemometer shall be provided for this purpose by the operator of the mine.

And in mines in which the operations are so extensive that all the duties devolving upon the mine foreman cannot be discharged by one man, competent persons having had three years experience in a coal mine may be designated and appointed as assistants, who shall act under the mine foreman's instruction, and shall be responsible for their conduct in the discharge of their duties under such designation or employment.

On all haulways space not less than ten feet long and two feet six inches wide, between the wagon and the rib, shall be kept open at distance not exceeding one hundred feet apart, in which shelter from passing wagons may be had; it shall further be the duty of the mine foreman to have bore-holes kept not less than twelve feet in advance of the face, and, where necessary, on sides of the working places that are being driven towards and in dangerous proximity to an abandoned mine or part of mine suspected of containing inflammable gases or which is filled with water; on all haulways where hauling is done by machinery of any kind, the mine foreman shall provide for the carrying of a conspicuous light on the front and rear of every trip or train of cars when in motion in a mine, and when hoisting or lowering of men occurs before daylight in the morning or at evening after darkness, at any mine operated by shaft, the said mine foreman shall provide and maintain at the shaft mouth a light of

a stationary character sufficient to show the landing and all surrounding objects distinctly, and sufficient light of a stationary character shall be located at the bottom of the shaft so that persons coming to the bottom may clearly discern the cages and other objects closely contiguous thereto: no cages on which men are riding shall be lifted or lowered at a rate of speed greater than six hundred feet per minute; no mine cars either empty or loaded, shall be hoisted while men are being lowered or hoisted, and no cage having an unstable self dumping platform shall be used for the carrying of workmen unless the same is provided with some device by which the same may be securely locked when men are being hoisted or lowered into the mine.

At every mine where ten men are employed under ground it shall be the duty of the operator thereof to keep always on hand at the mine a properly constructed stretcher, a woolen and a water-proof blanket, and all necessary requisites which may be advised by medical practitioner employed by the company, and if as many as one hundred and fifty men be employed, two stretchers with the necessary equipments as above advised; the mine foreman, or his assistant, shall visit and examine every working place in the mine, every alternate day while the miners of such mine are at work, and shall direct that each and every working place shall be secured by props or timbers whenever necessary, which shall be placed and used by the miners working therein as in this act provided, to the end that such working places shall be made safe, and the said mine foreman shall not permit nor shall anyone working a place known to be unsafe unless it be for the purpose of making it safe. The mine foreman shall notify the operator or agent of the mine of his inability to comply with any of the requirements of this section, and it shall then become the duty of any operator or agent to at once attend to the matter complained of by the mine foreman, so as to enable him to comply with the provisions hereof if the same can be practically done. Any operator or agent of any coal mine, or other person who shall neglect to comply with the requirements of this section shall, upon conviction, be guilty of a misdemeanor, and shall be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than ten days nor more than ninety days at the direction of the court. Any mine foreman or employe failing to comply with this section shall, upon conviction, be fined not less than five dollars, nor more than fifty dollars, or be imprisoned in the county jail not less than ten days nor more than ninety days, in the discretion of the court.

Sec. 16. The operator or agent of every coal mine shall furnish the inspector facilities for entering such mine and making examinations or obtainable information; and if any inspector shall discover that any mine does not in appliance for the safety of the persons employed therein, conform to the provisions of this act, or that by reason of any defect or practice in or at such mine the lives or health of persons employed therein are endangered, he shall im-

mediately in writing notify such operator or agent thereof, stating in such notice the particulars in which he considers such mine to be defective or dangerous, and if he deem it necessary for the protection of the lives or health of the persons employed in such mine, he shall, after giving notice of one day to the said operator or agent, in writing notify immediately the chief of the department of mines, who shall immediately examine the mine reported to be unsafe. If in fact found to be in an unsafe condition, the chief of the department of mines shall forthwith order the mine to be closed until it is placed in a safe and proper condition for mining operations; the owner or operator of any mine so closed may apply to the circuit court wherein such mine is located, or the judge thereof in vacation, by petition for an order directing said mine to be reopened, and such court or the judge thereof in vacation shall immediately hear and determine the matters arising upon such petition, and if upon hearing thereof the court or the judge thereof in vacation shall find said mine is in a reasonably safe condition, the prayer of said petition shall be granted; but notice of said hearing shall be given to the district mine inspector or the chief of the department of mines three days at the least before said hearing; and in all such hearing the attorney general shall appear for the state and defend the same.

Sec. 17. No boy under fourteen years of age, nor female persons of any age, shall be permitted to work in any coal mine, and in all cases of doubt, the parents or guardians of such boys shall furnish affidavits of their age; any operator, agent or mine foreman who shall knowingly violate the provisions of this section, or any person knowingly making a false statement as to the age of any boy under fourteen years of age applying for work in any coal mine, shall, upon conviction, be fined not less than ten nor more than five hundred dollars or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

Sec. 18. No miner, workman or other persons, shall knowingly injure any shaft, lamp, instrument, air course, or brattice, or obstruct or throw open airways or carry matches or open lights in the places worked by safety lamps or disturb any part of the machinery or appliances, open a door for directing ventilation and not close it again, or enter any part of a mine against caution, or disobey any order given in carrying out any of the provisions of this act, or do any other act whereby the life or health of any person employed in the mine or the security of the mine is endangered; any person who shall violate the provisions of this section shall upon conviction, be fined not less than ten nor more than five hundred dollars, or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court; when any operator of a mine shall in any manner refuse to furnish all supplies necessary for the mine foreman to comply with the requirements of this act after being so requested so to do and by reason of such refusal loss of life or injury may result to any employe, a right of action for damages may

ensue against the operator of the mines wherein such employe has not contributed to his own injury or loss.

Sec. 19. Nor shall any person or persons, or combination of persons, by force, threats, menaces, or intimidation of any kind, prevent or attempt to prevent from working in or about any mine, any person or persons who have the lawful right to work in or about the same, and who desires so to work; but this provision shall not be so construed as to prevent any two or more persons from associating together under the name of knights of labor, or any other name they may desire, for any lawful purpose, or for using moral suasion or lawful argument to induce anyone not to work in and about any mine; any person or persons who shall violate the provisions of this section shall, upon conviction, be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than ten days nor more than ninety days, in the discretion of the court.

Sec. 20. Whenever by reason of any explosion or other accident in any coal mine, or the machinery connected therewith, loss of life or serious personal injury shall occur, it shall be the duty of the superintendent of the colliery, and in his absence, the mine foreman in charge of the mine, to give notice forthwith, by mail or otherwise, to the inspector of the district, stating the particulars of such accident; and if any one is killed thereby, to the coroner of the County also, or in his absence or inability to act, to any justice of the peace; and the said inspector shall, if he deem it necessary from the facts reported, immediately go to the scene of such accident and make such suggestion and render such assistance as he may deem necessary for the future safety of the men and investigate the cause of such explosion or accident, and make a record thereof which he shall preserve with the other records of his office; and to enable him to make such investigation, he shall have the power to compel the attendance of witnesses, and to administer oaths or affirmations; and the costs of such investigation shall be paid by the county in which such accident occurred, in the same manner as the costs of the coroner's inquests are now paid; if the coroner or justice shall determine to hold an inquest upon the body of any person killed, as aforesaid, he shall impanel a jury, no one whom shall be directly or indirectly interested, and the inspector of mines, or the chief of the department of mines, if present at such inquest, shall have the right to appear and testify and to offer any testimony that may be relevant and to question and cross-question any witness; and the coroner or justice shall deliver to the inspector a copy of the testimony and verdict of the jury; any operator, agent, superintendent or mine foreman who shall fail to perform the duty provided in this section shall, upon conviction, be guilty of a misdemeanor, and shall be fined not less than ten nor more than five hundred dollars or be imprisoned in the county jail not less than ten nor more than ninety days, in the discretion of the court.

Sec. 21. The operator or agent of every coal mine shall annually,

during the month of August, mail or deliver to the chief of the department of mines, a report for the preceding twelve months, ending with the thirty-first day of August. Such report shall state the names of the operators and officers of the mine, the quantity of coal and such information, not of a private nature, as may from time to time be required by the chief of the department of mines; blank forms of such reports shall be furnished by the chief of the department of mines. At any time any person, company or organization operating a coal mine shall transfer the ownership of any mine to another person, company or corporation, the person, company or corporation transferring such ownership shall within thirty days make a report to the chief of the department of mines of such change, and a statement of the tons of coal produced since the first of July last previous to the date of such sale or transfer of such mine; any operator or agent failing to furnish the reports as required in this section shall be guilty of a misdemeanor, and upon conviction shall be fined not less than fifty nor more than five hundred dollars, or imprisoned in the county jail not less than thirty nor more than ninety days, in the discretion of the court.

Sec. 23. Any operator, agent, superintendent or mine foreman having in charge any mine, who shall knowingly permit any person to work in any part of a mine in violation of instructions issued by the mine inspector, made in compliance with the requirements of this act, shall upon conviction be fined not less than fifty nor more than one hundred dollars for each person permitted to work in violation of such instructions, and any employe who shall work in violation of such instructions, shall upon conviction, be fined not less than ten nor more than fifty dollars.

In any mine in which a shot-firer or shot-firers are not required to be employed under the provisions of this act and in which solid shooting is done the district mine inspector is authorized to prescribe the conditions under which such solid shooting may be done.

Sec. 24. No steam locomotive shall be used in mines where men are actually employed in the extraction of coal, except by the consent of the district mine inspector, but this shall not be construed to prohibit any mine owner from operating a steam locomotive through any tunnel, haulway or part of a mine that is not in actual operation and furnishing coal; any operator or agent who violates this section shall be guilty of a misdemeanor, and upon conviction shall be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than thirty nor more than ninety days in the discretion of the court.

Sec. 25. There shall be adopted by the operator of every mine in this State special rules for the government and operation of his mine or mines, covering all the work pertaining thereto in and outside of the same, which however, shall not be in conflict with the provisions of the mining laws of this State; such rules when established shall be printed on cardboard, in the English language and shall be posted up in the drum house, tippie or some other conspicu-

ous place about the mines where the same may be seen and observed by all the employes at such mines, and when said rules are so posted the same shall operate as a notice to all employes at such mine or their acceptance of the contents thereof; and it shall be the duty of each mine operator to furnish a printed copy of said rules to each of his employes when requested by either or any of them; any operator or agent who violates the provisions of this section shall be guilty of a misdemeanor, and upon conviction be fined not less than fifty nor more than five hundred dollars, or be imprisoned in the county jail not less than thirty nor more than ninety days, in the discretion of the court.

Sec. 26. In all prosecutions under this act the circuit court, criminal court and justices of the peace have concurrent jurisdiction with the right of appeal to circuit court.

Sec. 27. The provision of this act shall apply only to coal mines in which five or more persons are employed in a period of twenty-four hours; but no mine employing less than ten men shall be required to employ a mine foreman.

All acts and parts of acts inconsistent with the provisions of this act are hereby repealed.

FEATURES OF THE MINE LAW. 1907.

- 1 Department of Mines in charge of Chief of Department of Mines, formerly Chief Mine Inspector. See Section 1.
- 2 District Mine Inspectors appointed by the Chief of Department of Mines. See Section 2.
- 3 Inspection districts increased to twelve. See Section 4.
- 4 (a) Operators to furnish map of mine on a scale of 100 or 200 feet to the inch. See Section 5.
(b) Direction of air current to be indicated on map by arrows. See Section 5.
(c) Plans of all new development to be furnished the District Inspector previous to making the development. See Section 7.
(d) Department may have survey of mine made if maps are not furnished, or if map so furnished is believed to be inaccurate. See Section 6.
(e) Operators to pay costs if original map is inaccurate. See Section 6.
- 5 (a) After August 22, 1907, the mine foreman shall instruct each person employed within the mine as to the particular danger of his work and furnish him a copy of the mine law and rules of the mine. See Section 8.
(b) Every inexperienced person employed shall work under the personal direction of the mine foreman or other experienced mine worker. See Section 8.
(c) Two openings required at all mines each to be available to

- travel of men. Not over twenty persons allowed to work in any mine having but one opening. See Section 8.
- 6 (a) Metal speaking tube from top to bottom of shaft. Other means of signalling required. Safety catches and hoods on cages. Safety gates at top of shaft. Adequate brake on hoisting drum. See Section 9.
- (b) Hoisting machinery to be inspected once each day. See Section 9.
- (c) Traveling way around bottom of shaft required. See Section 9.
- 7 (a) Sober engineers to be in charge of hoisting machinery. See Section 10.
- (b) No more than ten persons shall ride on any cage or car at one time. No person allowed to ride on loaded car or cage in any shaft or slope. See Section 10.
- (c) Slopes, haulways and motor roads used for travel shall be made sufficiently wide for persons to pass moving cars in safety. See Section 10.
- (d) Or refuge holes, kept whitewashed, shall be made on one side not over 60 feet apart. See Section 10.
- (e) No person shall travel on slope, engine plane or motor roads when other roads for travel are provided. See Section 10.
- 8 (a) Ventilation.—In non-gaseous mines 100 cubic feet of air per minute for each employe required, or as much more as may be required by the District Inspector. Air shall be conducted to face of all workings. See Section 11.
- (b) Break-throughs shall be not over 80 feet apart in headings and rooms in the same pillar. See Section 11.
- (c) Stoppings to be constructed and made of material approved by the Inspector. See Section 11.
- (d) After August 22, 1907, the air current shall be split so as to not allow over 60 persons to be in the same current. Cases where 80 persons may be permitted in the same current. See Section 11.
- (e) No person allowed to work where the air current is less than 100 cubic feet of air per minute. See Section 11.
- (f) Dust in all mines shall be prevented from accumulating and mine kept watered down. See Section 11.
- (g) Powder to be taken into mines in five pound metallic cans. Quantity of explosives limited. See Section 11.
- 9 (a) In gaseous mines,—Minimum ventilation 150 cubic feet per minute for each person or as much more as the Inspector may direct. See Section 12.
- (b) Stoppings to be made of material approved by the Inspector.. Doors to be avoided. Overcasts made of incombustible material. See Section 12.
- (c) Safeguards to be used in worked out or abandoned parts of the

- mine. Prevent overflow of standing gas. Unlawful for any unauthorized person to enter such parts. See Section 12.
- (d) Twenty minutes shall elapse after shot before miner shall re-enter working place. See Section 12.
 - (e) Workmen shall be withdrawn from mine when ventilation is disturbed. See Section 12.
- 10 (a) In gaseous mines the ventilation to be produced by a fan, which shall be run day and night. See Section 13.
- (b) Fire Boss to be employed. Shall understand gases and their detection. Shall understand ventilation. Three years' experience in gaseous mines; his duties. See Section 13.
 - (c) Danger signal to be displayed outside of mine. Shall begin examination within three hours before each shift enters mine. Evidence to be left in working places. Shall make written report in book. See Section 13.
 - (d) Unlawful to enter mine until signal has been displayed. See Section 13.
- 11 (a) Safety lamps to be used exclusively in gaseous mines, except by permission of Inspector. See Section 14.
- (b) Safety lamps to be in charge of a special person. See Section 14.
 - (c) At all mines two safety lamps shall be kept. See Section 14.
- 12 (a) Mine foreman;—his duties,—Shall have had five years' experience in coal mines. See Section 15.
- (b) Shall keep careful watch over ventilation; attend to break-throughs; loose top; furnish props and timbers. Employes to notify mine foreman when in need of props. Miners shall prop the roof. Water to be removed from the mine. See Section 15.
 - (c) Cross-cuts to be driven. See Section 15.
 - (d) Check doors to be used to ventilate room. See Section 15.
 - (e) No room to be turned off ahead of the ventilating current. See Section 15.
 - (f) Inspectors may stop men from working. See Section 15.
 - (g) Air current to be measured by the mine foreman twice each month and recorded in a book. See Section 15.
 - (h) Anemometer to be provided by the operator. See Section 15.
- 13 (a) Assistant mine foreman shall have had three years' experience in coal mines. See Section 15.
- (b) Space on haulways to be made ten feet long by 30 inches wide every one hundred feet. See Section 15.
 - (c) Bore holes to be kept in advance. See Section 15.
 - (d) Signal light to be carried on each end of trips of cars. See Section 15.
 - (e) Stationery light to be maintained at top and bottom of shaft. See Section 15.

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- (f) Cages carrying men not to be lowered or hoisted at a speed greater than 600 feet per minute. See Section 15.
 - (g) Mine cars, neither empty nor loaded, shall not be hoisted while men are being lowered or hoisted. See Section 15.
 - (h) Cage having unstable platform not to be used for carrying men unless provided with device for locking same. See Section 15.
- 14 Stretchers to be kept on hand. See Section 15.
- 15 (a) Mine foreman or his assistant to visit and examine every working place every alternate day. See Section 15.
- (b) Shall not permit any one to work in unsafe place; exception. See Section 15.
 - (c) Props or timbers to be placed by miners. See Section 15.
 - (d) Mine foreman to notify operator of his inability to comply with requirements of this section. Duty of operator or agent. See Section 15.
- 16 (a) Operator to furnish inspector facilities for entering and examining mine. See Section 16.
- (b) Duty of Inspector when mine is in unsafe condition. Notify operator and Chief of Department of Mines. See Section 16.
 - (c) Chief of Department of Mines to examine mine and if he considers it unsafe has authority to close it. See Section 16.
 - (d) Owner or operator may apply to Circuit Court, or judge thereof in vacation, for order directing mine to be re-opened. See Section 16.
 - (e) Court, or judge thereof in vacation, to immediately hear and determine matters. See Section 16.
 - (f) Notice of hearing, three days at least, to be given District Mine Inspector or Chief of Department of Mines. See Section 16.
 - (g) Attorney General to represent the State. See Section 16.
- 17 (a) Boys under fourteen years of age and female persons not to be employed in mines. See Section 17.
- (b) Affidavits to be furnished by parents or guardian of age in all cases of doubt. See Section 17.
- 18 (a) Employes not to do any act that endangers life or property. See Section 18.
- (b) Employes not to disobey orders given in compliance with law. See Section 18.
- 19 Operators to furnish mine foreman all necessary supplies; right of action for damages. See Section 18.
- 20 Intimidation of employes prohibited. See Section 19.
- 21 (a) Explosions or other accidents:—Duty of superintendent or mine foreman; notify Inspector, and in case any one is killed thereby, notify coroner or justice of the peace also. See Section 20.
- (b) Inspector's powers and duties in case of explosion or other accident. See Section 20.

- (c) Coroner's duty to Inspector. See Section 20.
- 22 (a) Operators to make annual report during month of July to Chief of Department of Mines. See Section 21.
- (b) Any person, company or corporation transferring ownership of a coal mine shall report such transfer to Chief of Department of Mines within 30 days. Statement of tons of coal produced since first of July, last, previous to sale or transfer of such mine or mines. See Section 21.
- 23 Penalty for permitting persons to work, and for employes working, in any part of a mine in violation of instructions of Mine Inspector. See Section 22.
- 24 Solid shooting;—the District Mine Inspector to prescribe conditions under which such solid shooting may be done. See Section 23.
- 25 Steam locomotives not to be used in mines; exception. See Section 24.
- 26 (a) Rules to be adopted by operator for government and operation of mine or mines. See Section 25.
- (b) Printed on card-board in languages spoken by ten or more employes. See Section 25.
- (c) Post in drum house, tippie or some other conspicuous place. See Section 25.
- (d) Copy to be furnished each employe. See Section 25.
- (e) See Section 15 in reference to timber in mines.
- 27 (a) Courts having concurrent jurisdiction. See Section 26.
- (b) Right of appeal. See Section 26.
- 28 (a) Mine Law applies to coal mines in which five or more persons are employed. See Section 27.
- (b) Mine foreman not required unless ten or more persons are employed. See Section 27.

OPINION OF ATTORNEY GENERAL.

Charleston, W. Va., March 30th, 1909.

MR. WILLIAM G. CONLEY,
Attorney General.

Charleston, W. Va.

Dear Sir:—The Department receives a great many inquiries, as to whether or not, under the Mining Law of this State a foreigner who has just taken out his first citizen papers, but who has not been here a sufficient length of time to secure his second papers is eligible to be placed in our mines as Mine Foreman or Fire Boss.

My interpretation of the Law is, that whenever a man takes out his first papers, he is entitled to all the rights of the American citizen, except voting, and in answering these inquiries my instructions to mine operators has been, that any man as above stated who has secured his

first papers can be placed in charge of any of our mines, and be in accordance with Law.

Please advise whether my interpretation is correct. Thanking you in advance for this courtesy, I am.

Very truly,

JOHN LAING,
Chief of Department of Mines.

State of West Virginia, Office of Attorney General.
Charleston, April 14, 1909.

MR. JOHN LAING,

Chief of Department of Mines,
Charleston, West Virginia.

Dear Sir:—I have before me your letter of the 30th ult., wherein you say:

"This Department receives a great many inquiries, as to whether or not under the Mining Law of this State a foreigner who has just taken out his first citizen papers, but who has not been here a sufficient length of time to secure his second papers is eligible to be placed in our mines as Mine foreman or Fire boss.

My interpretation of the Law is, that whenever a man takes out his first papers he is entitled to all the rights of the American citizen, except of voting, and in answering these inquiries my instructions to mine operators has been, that any man as above state who has secured his first papers can be placed in charge of any of our mines, and be in accordance with law.

Please advise whether my interpretation is correct. Thanking you in advance for this courtesy, I am."

I do not believe that the law of this state, relative to the question submitted, will bear the liberal construction you have been placing upon it. It is true a foreigner residing in this state whether he had or had not declared his intention of becoming a citizen would be entitled to many rights and privileges. He would be entitled to the protection of the laws, could own, hold and transfer property; could contract and be contracted with; could sue and be sued, etc.; but he could not vote. Nor would he be eligible to become a mine foreman or fire boss in the mines of this state, and, for the simple reason, that the statute expressly so provides. Section 13 of chapter 78, Acts of the Legislature, 1907, relative to the employment of a fire boss provides:

"It shall be the duty of every mine owner or operator in this state whose mines are known to generate fire damp or other dangerous gas or gases in dangerous quantities to engage a fire "boss" or "bosses" where necessary, who shall be a citizen or citizens of this state," etc.

And section 15 of said chapter, relative to a mine foreman, provides:

"In order to better secure a proper ventilation of every coal mine and promote the health and the safety of persons employed therein, the operator or agent shall employ a competent and practical inside

overseer, to be called a mine foreman, who shall be a citizen of this state," etc.

I consider that these provisions are mandatory and must be strictly followed; that only citizens of this state are eligible to said appointments, citizens, however, within the civil and not within the political meaning; for the latter, though born or naturalized in the United States are not citizens of West Virginia until they shall have resided one year within the state.

The West Virginia Constitution provides as to what shall constitute citizenship within the state and who shall be citizens of the state, section 3 of article 2, providing:

"All citizens residing in this state, born or naturalized in the United States, and subject to the jurisdiction thereof shall be citizens of this state."

According to this provision, a foreigner residing in West Virginia, before he can become a citizen of the state, must be naturalized, as provided by the Acts of Congress governing naturalization of aliens. He is not admitted to citizenship until the proceeding relative to his naturalization has been completed, and as stated by the Supreme Court of this State in the case of *Dryden v. Swinburne*, 20 W. Va., 90:

"The law requires, that an alien should be naturalized in a court of record and his admission to citizenship must be by a judgment of such court."

It is well settled that:

"A declaration or intention to become a citizen does not make the alien a citizen. An alien remains such until naturalization is completed." 2 Cyc 117, citing many cases.

But when an alien has been naturalized and locates in this state, with the intent of becoming a citizen, he is instantly within the civil meaning, a citizen, but within the political meaning, not until he shall have resided in the state one year.

One of the cases cited in 2 Cyc referred to, in *Minneapolis v. Reum*, 56 Fed. 576, wherein it was held:

"That a foreign-born resident of the United States who has merely declared his intention to become a citizen, but has never complied with any other provision of the naturalization laws, is none the less an alien, because of the fact that the Constitutional laws of the state have conferred the elective franchise and other privileges of citizenship on foreign subjects who have declared their intention to be naturalized," etc.

The exact question submitted has not been passed upon by the Supreme Court of this state or of Virginia, prior to the separation of West Virginia; but as early as 1815, the Virginia Supreme Court construed

the Act of the General Assembly of Virginia, passed in 1809, on the question of citizenship in connection with the right to serve as a grand juror. The act of Virginia in question was as follows:

"Be it enacted by the General Assembly, that the sheriff of each county, where a circuit court is appointed to be holden, shall, before every meeting of such court, summon twenty-four of the most discreet freeholders of the county, being citizens of this Commonwealth," etc.

Under this provision of the Virginia statute the Supreme Court held that an alien could not serve as a grand juror, the court saying:

"When a bill of indictment is found by a grand jury, one of whom is an alien, or otherwise disqualified by law, the bill on presentment may be avoided by a plea."

The court further said:

"The court doth decide by unanimous opinion of the judges present that Edward Slater in the record of said proceedings mentioned was not a good and lawful grand juror, and the said presentment is not a good one" Com. v. Cherry, 2nd Va. Cases 20.

The provision as to citizenship relative to grand jurors is omitted from the enactment of West Virginia; but in section 1 of chapter 116, the W. Va. Code, relative to juries, provides:

"All male persons who are twenty-one years of age, and not over sixty, and who are citizens of the state, shall be liable to serve as jurors," etc.

This section, as involving the question of citizenship, has never been construed by the Supreme Court of this state; but if the question of citizenship in this connection should ever be raised, I am of the opinion that the Court of this state would hold as the Virginia Court did in the case mentioned, that an alien could not serve as a juror.

The very question presented, however, has been passed upon by the Courts of Pennsylvania under the mining laws of that State requiring "fire bosses" to be citizens of the State. The mine law of Pennsylvania in question provides:

"Applicants for mine foremen or fire boss certificates shall be at least twenty-three years of age, and shall have had at least five years practical experience, after fifteen years of age, as mine superintendent at or inside of the bituminous mines of Pennsylvania, and shall be citizens of this commonwealth and men of good moral character and of known temperate habits." Section 300 Pennsylvania Mine Laws.

Under this provision of the Pennsylvania Mine Law the courts held:

"An unnaturalized foreigner is not qualified under the Pennsylvania bituminous coal mining act for the position of fire boss, notwithstanding he has declared his intention to become a citizen." Examining Board's Authority, 3 Pa. Dist. Rep. 840; 1st Lack. L. News, 49 15 Pa. Co. Ct. Rep. 585.

In conclusion, I will say that I am of the opinion that, under the laws of this state, only citizens of the State of West Virginia, who are such as defined by the Constitution of the State, are eligible to and can serve in the positions of mine foremen and fire bosses, as provided in the mining laws of the State.

Yours truly,

WM. G. CONLEY,
Attorney General.
By D. E. MATTHEWS,
Assistant.

MINE EXPLOSIONS—REPORT OF EXPLOSIONS.

ECHO MINE.

Beury, W. Va., March 31st, 1909.

The mine is located at Beury, W. Va., on the main line of the C. & O. Railway, and two miles west of Thurmond, W. Va. It is opened in the Fire Creek seam and is operated by the Beury Brothers Coal & Coke Company.

At 1:30 P. M. March 31st an explosion occurred in this mine which caused the death of Sam Melhorn, Andrew Melhorn, John Blumefield, William Smith, Charles Jones and Andy Sydenstricker.

The last of these men Andy Sydenstricker, was brought out of the mine alive, at 1 P. M. of April 1st, having been in the mine for twenty-four hours after the explosion, and although he was given the very best of care and attention, he died on the Monday morning following, April 5th, from the effects of the poisonous after damp.

I went to this mine on the evening of March 31st, assisted in the rescue work and left there on April 1st, at 2:30 P. M., after all of the bodies had been brought out of the mine leaving Special Inspectors Combs and Raisbeck in charge.

From all the indications shown, and information it was possible to gather, it was determined that the explosion originated in the 4th Right off Carter's entry, known as "Jones Place." It seems that about eighty feet from the face of Jones place a piece of slate 20 feet wide, 30 feet long and 12 inches thick, had fallen a few days before, and Jones together with J. E. Miller had been working at this slate to remove it. They had fired three or four shots of dynamite on the rock, beginning with three sticks and increasing the charge until six sticks were used. Miller testified that they left ten sticks of dynamite in the mine, then they were idle for a week, and Jones, on the morning of March 31st, after getting eight more sticks of dynamite went into the mine by himself. After the explosion, three sticks of dynamite were found in a sack in Jones place, so that he used that day fifteen sticks of dynamite, and the probabilities are that he used all or most of it in the blast which caused the explosion.

The mine is generally damp except in one or two places which were referred by District Inspector J. A. Straughan, in the report of his inspection made March 3rd, 1909.

Notices of the Mining Department and the Instructions of the District Inspector in regard to the proper use of explosives, were posted at the pitmouth, but they seem to have been almost absolutely ignored, and the law flagrantly violated, in as much as several kegs of powder, some of them one-half to three-fourths full were found. And to this indifference to the instructions of the Department must this explosion, with its attendant loss of life, be attributed.

Attached herewith please find copy of a letter dated March 15th, 1909, from Mr. J. A. Straughan, District Mine Inspector to Mr. H. B. Beury, Supt. of Beury Bros. C. & C. Co., in regard to the use of explosives. Also attached please find copy of verdict of Coroner's jury.

LICK BRANCH MINE EXPLOSION.

Decembe 29 1908.

The Lick Branch mine is located in McDowell County on the main line of the Norfolk & Western Railroad, it is a drift mine opening on a small branch of Elkhorn River called Turkey Gap Branch, and is about midway between Bluefield and Welch.

This mine is owned by the Pocahontas Consolidated Collieries Company, with principal offices at Bramwell, West Virginia, Mr. Isaac Mann, of Bramwell is President, James Ellwood Jones, of Switchback, General Manager, Geo. E. Atkinson, General Inside Superintendent, and Cleve Bowers, Mine Foreman.

This mine is developed by two main headings running parallel to each other and about 2000 ft. apart. The left of New Main Entry is worked on the double entry system, and the Old Main or Turkey Gap entries are worked on the double entry system until they break through to Tug River, then they are worked on the three entry system all of which are shown on the accompanying map. The mine has a producing capacity of 3000 tons daily, but on account of the general depression of business only 800 to 1000 tons daily were being mined.

The last inspection of the mine, made by this Department previous to the explosion of December 29th, is a matter of record and is presented in the evidence of the inquest and reads as follows:

Ventilation	<i>Good.</i>
Drainage	<i>O. K.</i>
Timbering	<i>O. K.</i>
Machineries	<i>O. K.</i>
Gases	<i>None.</i>
Oil used	<i>O. K.</i>
General Safety	<i>O. K.</i>
Recommendations	<i>None.</i>

The coal mined here is the number three Pocahontas seam, and has an average thickness of $8\frac{1}{2}$ feet of clean coal (a very remarkable feature of the seam). In addition to this it has a most excellent roof, practically no props or timber being used in this mine, other than for mine ties; The mine is perfectly free of explosive gas of any kind and is worked throughout with open lights, it is ventilated by a 28 foot Homemade fan and is operated by a 100 Horse Power General Electric Generator, this gives a producing capacity of approximately 100,000 cubic feet of air per minute with a three inch water gauge; but it has a capacity of a much greater producing quantity of air needed.

The air is conducted into the mine in two splits, one intake being at the new main entry of left mine, the other intake being at what is known as Tug River opening.

The air taken into the New Main is conducted through all the left hand workings of said mine, then up to the face of the New Main entry, and back to the third right, and connects with number ten entry from the old main and there joins with the current taken from the Tug River side.

The air from the right hand workings is taken in at the Tug River openings, and conducted up all of the right hand workings of the old mine, distributed through the face and back through all of these workings, and connects with a current from the New Main at the heading of number ten entry, both currents flow back from that point to No. 9 and No. 8 entries, and return down the old main air course to fan.

The stoppings used in this mine are walls built of slate and rock about 8 ft. thick, and on the entry side are neatly trimmed and laid in mortar of sand and cement; this makes a very good system of brattices, and very little air is lost in transit.

The mine is equipped throughout with electricity and Electric machinery of all kinds, such as Mining Machines, coal loaders, Gathering Locomotives, etc., and is in many respects a very up to date mine.

The coal is delivered to the tippie by a tram road about one mile from the drift mouth. The tippie has a storage capacity of 500 tons of R. O. M. coal, and an adjoining bin with an equal capacity for slack coal which is used in the coke ovens, there are 192 ovens at this plant all of which were in blast at time of accident, and which produced a very superior quality of coke.

The coal is mined here both by machine and pick method, and the miner is paid by the car instead of the tonnage basis.

At 4 P. M. of December 29th a message reached this office from the District Mine Inspector D. R. Phillips stating there had been an explosion at Lick Branch mine, and that fifty lives had been lost. I had at that time Deputies Warner, Henry and Grady all working in the eleventh District, who went at once to the scene of the explosion and began to assist in the work of rescue under the direction of D. R. Phillips, who is in charge of that District, and they are to be congratulated, both for judgment ability and bravery, they did, to say the least,

heroic work and well, and by 7 o'clock P. M. of the 31st they had explored the entire mine and recovered a total of 49 bodies, one colored man being overlooked and was picked up next day by our party while making the final examination of the mine, in an endeavor to locate the point of origin of explosion and in this connection will only add that any points of origin that may be named by myself or any of the Deputies as the initial point will only be conjective and must not be considered as final proof, for in my judgment there were so many places that could have been the point of origin, that I would not attempt to specify any particular place.

The conditions as we found them were simply these. "The miners seemed to be getting all the cars they could load it being the holiday season and many of the men were not at work, and those who were in the mine were no doubt trying to get out as much coal as possible, and in their endeavor to do this were taking advantage of the situation and using every possible means at their command to produce coal. As proof of this in 75 % of the working places in the mine, we found where both machine and pick miners had been shooting coal from the solid; although this was a strict violation of instructions from the District Mine Inspector, also of the regular mine rules posted at the mine. And it was proven at the Coroner's inquest that the Management had used every effort to stop this; But with a condition of this kind, when the height of coal is considered, and the number of tons than can be shot from the solid, particularly with experienced miners, I believe it is impossible to stop solid shooting; for some men rather than mine their coal, will drill their holes charge them with powder, then wait for an opportunity when the officials are busy in another part of the mine to go in and shoot them; thereby keeping the air in the mine continually pregnant with an explosive mixture of gases. This mixture is always at such a temperature that a blown out shot or a hole charged with too large a quantity of powder, would at once cause an explosion; especially in such a mine as this.

After we, with a party of experts had gone over the mine and failed to locate any particular point of origin I left Deputies D. R. Phillips and P. A. Grady at the mine and instructed them to go over it carefully and see if they could find, or determine any supposed true origin of the cause of said explosion and I attach herewith their reports.

While I agree with them that room No. 7 off second right entry "B" suggests itself very much as the point of origin, yet there were several other places that could have been the point of origin, and are just as suggestive. So long as men are permitted to do promiscuous shooting in this manner we may always expect explosions of this kind. In my judgment such practice is courting such catastrophes. As the cause of the explosion is defined in report of both Phillips and Grady, I shall not here repeat; as their report is in a large measure in harmony with my own.

There is no doubt in my mind as to the principal cause of this ex-

plosion, which briefly is as follows: By careful inquiry I learned that a general practice in these mines, is for the miners to take a large quantity of dynamite in their powder flask under the pretense of it being powder, they also conceal fuse and dynamite caps on their person, and it is impossible for any foreman, however strict, to keep in touch with practices of this kind, as these are the most dangerous explosives. It matters not how well a mine is ventilated, or how perfectly the conditions are, so long as men are permitted to do their own shooting, these catastrophies can be expected at any time, and at any season of the year in any mine. This explosion is only one of the many we will have throughout the state unless this Department be given absolute authority to demand that men thoroughly familiar with explosives be placed in all mines of a dangerous character to be known as "Shot firers," and that all shooting must be done at times between shifts, when all the workmen are out of the mine except the "Shot firers."

I mention this method of shooting to bring to your attention the utter disregard that both experienced and inexperienced miners have for the orders of this Department and also for the rules as posted for the government and protection of all employers inside of a coal mine, the strength of a chain is its weakest link, so is every man's life who enters a mine under the conditions referred to, is at the mercy of the most reckless miner. Many operators of this state are pursuing the policy today of using shot firers, both for the protection of life and property, and in addition they are getting in return a much better preparation of coal. There is nothing to be lost either to the operators or miner by a system of this kind, but everything to be gained by each.

I enclose you herewith copy of testimony as given before Coroners inquest held at Switchback on Saturday, January 2nd, 1909. You will notice that none of the Mine Inspectors testified before this body, the reason for this was that we had not at that time determined any particular cause for the explosion, and any evidence that they might have given would have been theoretical rather than practical.

I have been asked by the Mine Investigating Committee to submit to that body what recommendations I could suggest to improve our mining conditions. There are many minor suggestions that I may take up, but the principal suggestions that I have to make are as follows:

- 1st. The Employment of "Shot Firers."

- 2nd. That all men in charge of the mines shall have a certificate of competency from the state before being permitted to hold such a position; by being drilled into the many dangers surrounding their calling, it will have much influence in carrying out the instructions of this Department. As it is now nine-tenths of the Mine Foremen throughout the state seem to think they are being paid to deceive the Mine Inspector and will if they hear of his presence (the Mine Inspec-

tor) being in the District, work all night to remedy conditions in the mine to have the Inspector report favorably. Then just as soon as the Inspector leaves will pay no attention whatever to the safety of the mine, nor to any instructions the Mine Inspector may have given him and at the same time will report to the Manager that the mine is O. K. By forcing examinations of this kind referred to, the state will secure a much more intelligent class of Foremen and will go far towards preventing mine accidents of all kinds.

In conclusion with reference to the Lick Branch mine and what is being done for its future safety, I will add, that this Company is installing a 4 inch water main throughout all of its principal headings and leading from this will be a 2 inch pipe into all rooms and chambers. A large tank on the hill will supply the water to this pipe and give a sixty pound pressure. By this system all dust and dry places will be thoroughly wetted and dampened; which will add very much to the safety of the mine, but will by no means make it safe unless other precautions are taken in a like manner.

As all names of the victims and etc., are contained in the evidence there is nothing further to be said. It might be of interest to know that this explosion was of a local nature and was confined principally to that part of the mine known as "Italy," which is composed of Dip A-1 entry, Dip B-1 entry, Dip B. entry, Old Main Entry 12 Cross entry, 11-2 entry and No. 11 Entry, all men who were in this part of the mine at the time of the explosion were killed; but the men escaped from all other parts of the mine practically unharmed after the explosion.

A very fortunate part of this catastrophe was that the fan was equipped with four large relief doors, and when the explosion occurred these doors flew open thereby taking practically all force from the fan consequently the fan never stopped running, and just as soon as a few brattices could be put up the air was at once put in motion around the mine and the work of rescue began by Deputies Phillips, Warner, Henry and Grady, who arrived at the mine 2 1-2 hours after the explosion. I herewith attach the report of the District Inspectors, Mr. D. R. Phillips, Mr. P. A. Grady and Mr. Earl A. Henry. Also a map showing the location of the bodies as found after the explosion.

Respectfully submitted,

JOHN LAING,

Chief of Dept. of Mines.

January 23rd, 1909.

The following is a copy of inquisition held relative to the explosion:

State of West Virginia, McDowell County, To-wit:

An inquisition taken at Switchback, W. Va., in the County of McDowell, on the 2nd day of January 1909, before C. W. White, Justice of said County upon a view of the bodies of:

Domnich Rose,
 Thomas Howell,
 Peter Poles,
 John Hicks,
 Thomas Swain,
 Kemp Danders,
 Mathew Webber
 Luna Naumuk,
 Jim Smith,
 John W. Miller,
 John Brown,
 George Parvolic,
 David Bolin,
 Reed Abderson,
 Tony Palmara
 Joe Edmunds,
 Green Davis
 Aseny Parvolic,
 Cleve Alexander,
 Buck Williams
 Gregory Boresky,
 Pleas Cannaday,
 Samuel Beatty,
 Pinus Buschuke,

Zeff Estes,
 Thos. Blevins.
 Robert Williams,
 John A. Holland,
 Walter Reynolds,
 Joe Lockett,
 Joe Nizuk
 Richard Lockett,
 Charles Little
 Wiley Little,
 J. E. Johnson,
 Elzy Blevins,
 George Meaket,
 J. W. Edmondson,
 John W. Partin,
 James Calloway,
 (Known as Holland),
 Scott Page,
 Jim Roan,
 Karl Tarrachuk,
 Tobe Webber,
 Jim Lockett
 Trofin Harasmuk,
 Nicolay Buschuke.

Ab. Holland.

And also upon the bodies of two unknown there lying dead.

The jurors sworn to inquire when, how and by what means said persons came to their death, upon their oath do say:

We find that the persons known, and unknown aforesaid came to their death by an explosion in the Lick Branch Coal mine, near Switchback, in the County of McDowell, State of West Virginia, happening on Tuesday, the 29th day of December, 1908, in the afternoon thereof, and from causes unknown to your jurors.

We further find from the investigation that no blame for the deaths of the above persons can be attached in any sense to the Pocahontas Consolidated Collieries Company, Incorporated, or any of the officers of said Company.

In testimony whereof the said Justice and Jurors hereto set their hands.

(Signed) C. W. WHITE, J. P.

" E. D. CREASY, Juror.

" WM. BAILEY, "

" W. H. JACKSON, "

" J. L. WOOD, "

" LUTHER VERNON"

" S. J. PETERS, "

POCAHONTAS CONSOLIDATED

COLLIERIES CO INC

High Branch Colliery

M. H. PROBY

Inspection January 27, 1900
 Date of Inspection by
 Mine Mine Inspection Department
 Mine Inspection of Mines
 First Explosion Jan 25, 1900

J. B. KEND

Arrows show direction of
 flow of gas
 Direction of Run
 Direction of Run



FIRST EXPLOSION.

REPORT ON LICK BRANCH MINE EXPLOSION.

HON. JOHN LAING.

Chief of the Department of Mines.

Dear Sir:—In compliance with your instructions of January 2nd, 1909, that myself and Inspector P. A. Grady make a thorough investigation of the Lick Branch Mine, with a view of ascertaining, if possible, the cause of the disastrous explosion which occurred therein about 2:30 P. M., December 29th, 1908, whereby 50 persons lost their lives, we beg to submit the following report:

A superficial examination of the mine, made January 1st, 1909, by yourself, accompanied by Inspectors Earl Henry, Wm. Warner, P. A. Grady, D. R. Phillips and several officials of the Company, developed the fact that the explosion was confined to the Eleven 1, Eleven 2, No. 12, and the Dip Entries, the forces exhausting in the No. 9 Entry Pillars in one direction and through the Tug River Opening, and down the Old Main Entries in the other.

We began our investigation January 4th, 1909, and concluded it in the evening of January 5th, 1909. We first visited the dip workings, which consist of the Main Dip B Entries and the Dip A-1 and Dip B-1 Entries, which turn off to the right and left respectively from the Dip B Entry. We travelled from there to the Old Main Entry, No. 12, Eleven 1, and Eleven 2 Entries in the order named, returning again to the Dip workings for further investigation.

At the Junction of the Dip B Entry with the Main, we found a heavy switch tie moved outward about four feet at one end, and an examination of the sides showed that the forces had traveled outward. This was more or less plain along this entry to the intersection of the Dip A-1 Entry. We continued down this entry to the face, in the last room of which, we discovered such conditions as led us to the conclusion that this might have been the place in which the initial explosion had taken place. In order to make clear to you the manner in which we arrived at this conclusion, it is necessary to explain the method of driving the entry and Aircourse at this point, which method was entirely different to that employed elsewhere throughout the mine, and one which is certainly not to be commended in any mine.

The Rooms were turned to the left off the 1st Entry, which should have been the Air Course, according to general practice.

The Aircourse was maintained by driving a line of Break-throughs from one Room to the other, and in line with each other. This system necessitated the use of either doors or Brattice Cloth on each Room. There are four rooms driven on 120 ft. centers. The last room is driven several feet beyond the Break-through or so-called Aircourse. The first cut was being made directly in front of the Aircourse, as if to continue the same towards the next room. A shot had

been fired in the left side of this cut, the hole pointing directly into the Aircourse.

The shot was on the solid and had simply cracked the coal from the hole downward, and was undoubtedly a windy shot, blowing out into the Aircourse. On the nearest corner opposite the hole, charred dust was deposited, and about 20 or 25 feet outward in the Aircourse the ribs from floor to roof were blistered and coked, as if subjected to such heat as might be generated by the explosion of a keg of powder. In no other part of the mine did we find any indication of great heat on the ribs near the floor.

The Room neck and Entry showed indications of their having been considerable heat and force. Charred dust was deposited in the off-sets, and the projections of the ribs were worn off on the inby side. Traveling out along the Entry and Air Course, the evidence of the force having gone in that direction, increases. At the intersection of the Aircourse with the Dip B Entry, against the rib, we found the remains of a dinner pail and powder keg. A careful examination of the torn sheet of the keg disclosed the fact of its being a new keg, and that it had been ruptured by an internal explosion. This was in the direct path of the force coming out of the Aircourse of Dip A-1. Several kegs were found throughout the mine, some whole and some battered, but a careful examination of the latter, proved them to be old, and none were burst open by internal force.

A careful examination of each of the Rooms on the Dip A-1 Entry, disclosed more or less heat extending toward but not quite reaching the faces.

Following the Main Dip B Entries to the face very little evidence of heat was visible, but a heavy deposit of soot covered every exposed part. In the last Break-through there had been considerable heat, as indicated by the coked coal on the ribs.

The Left or Dip B-1 Entries showed indications of heat in each break-through, and for some distance on either side. The force traveled out from these two Entries to the Old Main Entry. At the intersection with the Main Entry is a sidetrack. An empty car had been standing at the mouth of the Dip B. Aircourse. The car was hurled by the force across the loaded track to the opposite rib. The force divided at this point, a portion going out through the Old Main Entry to be exhausted in the Old Main workings, and out the Tug River opening, the other turning, going up towards the face of the Main Entry and derailing three empty cars in its progress, on the sidetrack just mentioned, one of which had the side blown out.

The force was greatly diminished from this point to the face. The soot deposit was very heavy in the righ-hand Aircourse.

A considerable increase of force was noticeable in the lower end of No. 12 Entry and Aircourse. This was due probably to the fact that these entries were dry and might have had a heavy deposit of fine dust on the ribs at the moment of the explosion. There was no

indication of there having been any flame at the face of the No. 12 Entry. On the bumper of a car at the face, there was found two 5 lb. powder flasks full of powder, and a roll of cartridge paper. These had been placed there by the miner preparatory to making a cartridge.

Rooms No. 15 and 16 on eleven 1 entry showed the effect of some heat on the ribs.

At the foot of No. 13 room, which is the connection between Eleven-1 and Eleven-2 Entries the projections are considerably worn on the in-by exposures, indicating that the force had increased here owing to the contracted area at this point.

The force divided here, part going down Eleven-1 Entry toward No. 9 and the Old Main Entries, the other going up No. 13 Room.

At the head of 13 room the Aircourse of Eleven-2 Entry had been headed through to 13 Room and was driven about sixty feet with the entry. A car in this place had both ends torn out in opposite directions, showing that a reactionary force had operated here. In one or two other places, there was some indications of reactionary force, but this is perhaps the best example. The track was torn up for some distance here. A heavy deposit of soot was deposited from Room 13 connection to the face of Eleven-2 Entry.

The rooms on this entry show more or less evidence of flame having passed through the break-throughs.

The greatest force in this Entry is in evidence near the Junction of the Entry with No. 11 Entry, and from this point outward it diminishes, becoming spent in the pillar workings of No. 9 Entry, where there is no indication of flame.

In our investigation of the mine, we found that in several instances, Entries and Rooms had been driven beyond the distances permitted by law between break-throughs, and while we do not believe that this had any bearing or effect upon the explosion it does show a disposition to neglect upon the part of the official upon whom this duty devolved. At the last visit of the District Mine Inspector no such violations of the law were noted or found.

We also found that there had been shooting upon the solid in several places, either of the whole cut, or in part.

The greater portion of the coal in the affected area, was under cut by 7 foot Electric Machines, and in the majority of the places it was very evident, that there had been an attempt to shoot this cut down its full height, 8 feet, with two shots, one in each rib. We found that some of the miners had placed a center shot and two side shots. Many of the holes examined had been improperly placed and tamped with coal.

This mine was considered an especially safe one. No fire damp has ever been found, and though not a wet mine, it was not a dusty one. Owing to the undercutting of coal by machines, there was undoubtedly a deposit of fine impalpable dust wherever it could find lodgment, and

in suspension, throughout portions of the affected area, and this propagated the explosion, after the windy shot and exploded keg of powder referred to heretofore, had supplied the required force and heat, to put it in motion and distill its gases. The Company seem to have exercised vigilance and energy, in prohibiting the miners from carrying kegs of powder into the mine, despite which, it would appear from our findings and the sworn testimony of one witness, one man did have a keg of powder in the mine in violation of the rules of the Company, and the law of the State.

It is evident to us that this explosion was due to the excessive use of powder, and the improper placing of the hole, and the violation of the law. The miners employed in the mines in this District are chiefly negroes, and ignorant unskilled foreigners, who have no conception of their own danger, or those about them, arising from the careless handling of powder, and the excessive charging of holes.

A repetition of this deplorable calamity is possible at any time in the best conducted mine, unless there are some changes in the method of blasting the coal. We therefore recommend for this and all other dry mines, that the blasting of coal shall be done by shot firers, who shall have the entire charge of the placing of holes, and the amount of powder to be used, and that the shooting be done after the employes have retired from the mine. That all holes shall be tamped with clay. That the ribs and top near the working faces of a machine mine, be washed down with water at fixed intervals and that the bug dust be loaded out before firing the shots, and for this particular mine, or any other where the coal exceeds six feet in height, that it shall be shot down in two benches.

In conclusion, we beg to report that the haulage and ventilation equipment are thoroughly up to date. The fan produced 96,000 cu. feet at the last inspection of the District Inspector. This air was divided into two currents, and was well distributed throughout the workings.

Yours very respectfully,

D. R. PHILLIPS,

District Inspector.

Jan. 8, 1909.

Huntington, W. Va., January 9, 1909.

MR. JOHN LAING,

Chief of Department of Mines,

Charleston, W. Va.

Dear Sir:—At the Lick Branch mine of the Pocahontas Consolidated Collieries Co., in McDowell Co., there occurred an explosion on December 29, 1908, which took the lives of 50 men employed therein.

Several hours after the explosion happened, I arrived at the mine in company with mine inspectors D. R. Phillips, E. A. Henry and Wm. Warner. Upon our arrival there we immediately began to assist in recovering the bodies from the mine. This work we completed on the evening of December 31st and on the following day with the above

mentioned inspectors and yourself, I made an investigation of the mine. On January 4 and 5, 1909, I made a further investigation along with Mr. D. R. Phillips, the inspector of the district, and a number of other mining men. We examined very closely the sections of the mine which were found affected by the explosion and traced it to where we thought was its point of ignition.

The seam of coal which averages about 8 feet 3 inches in thickness is mined with electric chain machines, by means of hand picks, and in a number of places, I found that it was being shot from the solid.

The explosive used, was black powder and judging from the way a great number of holes were found drilled and the condition of the coal when shot down, it must have been used in very excessive quantities when considering it from any standpoint of safety.

Where undermined, the coal is generally shot down by a row of single shots across the face. In the entries, three holes are drilled to do the work. These holes are started in about five feet four inches from the bottom and inclined upwards until the end of the hole is about seven feet eight inches from the bottom. The rib holes in a number of places, I found inclined into the solid coal.

From information gained in and out of the mine, I have learned that the amount of powder used in the middle or "heaving" hole of an entry equals a cartridge $1\frac{1}{2}$ inches in diameter and four feet long.

The holes drilled are from six to seven feet long and the amount of tamping used, which is the coal slack of the mine, in one of these holes very often offers a less resistance to the powder in exploding than that which it has to exert in breaking through the seven feet eight inches which the end of the hole is from the bottom.

When black powder is used in such a manner, there cannot help but be large quantities of combustible elements such as hydrogen and carbonmonoxide gas produced in its combustion.

At present the mine is being developed on the two and three entry system. Rooms are turned off these entries on 120 feet centers. Even though break throughs would be driven as required by law and no brattice used to conduct the air, the faces of those breakthroughs would go a considerable distance ahead of ventilation before cutting through such thick pillars. This system of working a mine with such thick pillars should be condemned as it allows the working faces to advance too far ahead of ventilation.

In many places, I found the faces advanced a considerable distance ahead of the last breakthrough through which the ventilation was conducted and in making the examination of the mine, I could not find any evidence that brattice had been used to conduct the air to these faces. The mine is not known to have generated explosive gas, but, the combustible elements produced in the shooting of black powder as it was done in this mine could find easy lodgment in such places ahead of ventilation.

The mine cannot be considered as a dry and dusty one, but, I do think that enough dust is held in suspension in the atmosphere of the mine from the cutting of the coal and the promiscuous shooting that it was being done to help propagate an explosion once it was started.

The place that suggested itself as the most probable initial point of the explosion is at the face of room 7 off of the second right entry from Dip B entry. This room has only advanced in a few feet from the entry. The face of the entry has not been driven beyond the inside rib of this room and an entry breakthrough has been cut through directly in front of it. At the face of the room a hole was fired and from the appearance of the coal, it would be classed as a windy one. An empty car stood in the place ready to be loaded and the men who were supposed to load it were found over in the parallel entry where they evidently had gone to seek protection from the shot when it was fired. The ribs are thickly coked near the place, which diminishes in thickness going out the parallel entry towards the Dip B entries. From this point, it went to the old main entries where the force divided, that going out these entries spent itself out the Tug River opening and through the outer workings of the mine. The other force shows that it went into the old main entry workings, through the rooms to 11-2 entry from where it spent its force through the outer workings.

The explosion from its initial point was propagated by the dust held in suspension in the atmosphere of the mine and the resulting gases from the excessive shooting of black powder.

To prevent a re-occurrence of such a disaster I would recommend that the use of black powder and all high flaming explosives be prohibited; that the coal be double shot or sheared in addition to having it undercut so as to reduce the excessive use of the explosive used: and have the air conducted to the working places to keep them well ventilated.

Respectfully yours,

P. A. GRADY.

Mine Inspector Twelfth District.

REPORT OF LICK BRANCH MINE EXPLOSION.

Clifton, W. Va., January 19th, 1909.

HON. JOHN LAING,

Chief of Department of Mines,

Charleston, W. Va.

Dear Sir:—I hereby submit the following report of the disastrous explosion which occurred at 2:30 P. M. December 29th, 1908, whereby fifty persons lost their lives in the Lick Branch Mine located in McDowell County, West Virginia. It is owned and operated by the Pocahontas Consolidated Collieries Company.

On the date of this explosion I was in McDowell County, assisting

District Inspectors D. R. Phillips, Warner and Grady, in making special inspections of important mines, in compliance with your instructions.

We arrived at the Lick Branch Mine a few hours after the explosion, and immediately took charge of the work of restoring the ventilation, and removing the dead bodies from the mine. Upon entering the mine, we found that it was a local explosion, confined to what is known as the Old Main and Tug River opening, and in no way affecting the New Main workings.

On January 1st, 1909. In Company with Chief Laing, District Inspectors, D. R. Phillips, Warner and Grady with Company officials, we entered the effected part of the mine for the purpose of an investigation, as to the origin and cause of the explosion. In a number of instances we noted that working places both rooms and headings were driven a distance beyond what is known as the eighty foot limit between the breakthroughs; we also found in several working faces where the coal had been shot from the solid, and many of the holes examined had been improperly placed, and tamped with fine coal. In this section of the mine the coal has an average thickness of eight feet, and the greater portion of the coal is undercut by a seven foot Electric Machine, and in many places it was evident that such cuts had been shot with two holes, one in each rib.

In our investigation we found several places in the advance workings either of which could have been the point of origin, as in my judgment, this explosion was principally due to the excessive use of black powder, aided and increased by dust to some extent, as the principal number of dead bodies taken from the mine showed evidence of suffocation. And but few places that were extremely dry showed evidence of great force, which is usually the case in dust explosions.

The natural conditions of this mine are found to be above the average mine throughout the state, and at no time during the work of recovering the dead bodies, or in our final investigation were we able to find the slightest trace of fire damp. While there were no large accumulations of dust in any part of this mine, it is a well known fact, that the undercutting of coal by machinery and solid shooting creates a considerable amount of fine dust, which finds lodgment on ribs, roof and pavement, and is readily put in suspension by an overcharge shot, or by an explosion of a keg of powder, either of which will supply the required force to put it in motion and furnish the heat to distill its gases, with dangerous results to life and property.

As stated before in my opinion this explosion was due to the excessive use of black powder, and to eliminate a repetition of this calamity, I recommend for this and all other dry mines, that safety explosives shall be used in shooting the coal, and that solid shooting shall be strictly prohibited, and where black powder is used in blasting of coal, Shot firers shall be employed, who shall have charge of plac-

ing the holes and the amount of powder to be used. All holes to be tamped with clay, and the shooting to be done after the employes have retired from the mine, and that all dusty sections be kept thoroughly watered at all times while the mine is in operation.

In conclusion I desire to say, that the equipment for ventilation was sufficient to furnish the necessary amount of air for the proper ventilation of the mine, if properly distributed to the working faces.

Respectfully yours,

EARL A. HENRY,
Inspector Fifth District.

LICK BRANCH MINE SECOND EXPLOSION.

The second explosion occurred at the Lick Branch Mine at 8:40 A. M. January 12th, 1909, killing sixty-five miners and injuring one.

This mine is located on the main line of the Norfolk and Western Railroad, about eighteen miles west of Bluefield, W. Va. The elevation of the drift mouth on the Lick Branch side is 2160, and the elevation on the drift on the Tug River side is 2115. The elevation of the fan, about 2500 feet to the North west of the Lick Branch opening, is 2084. The elevation of the Norfolk and Western Railroad at Switchback, is 2054. Those levels refer to the mean tide elevation. From these elevations we find that the coal is about one hundred feet above the level of the creek at the Lick Branch opening.

The Lick Branch was first opened up by the Norfolk Coal & Coke Company, in 1890, and was under the management of Mr. S. M. Buck, President, E. W. Clark and other Bankers of Philadelphia, Pa., were the principal owners.

Mr. Jerkins Jones acquired the Clark interests in 1898 or 1899. Mr. Isaac T. Mann was President, Mr. Jenkins Jones was Vice President and Mr. James Ellwood Jones was General Manager.

On July 1st, 1907, the properties of the Pocahontas Consolidated Company and the Pocahontas Collieries Company were merged, and the Company is now styled the Pocahontas Consolidated Collieries Company, Incorporated. Mr. Isaac T. Mann is President, Mr. C. S. Thorne is First Vice President, Mr. Jenkins Jones is Second Vice President, and Mr. James Ellwood Jones is General Manager.

The minimum output of the mine was 5,705 tons of coal in 1890, and its maximum output was 161,166 tons of coal in 1906.

The plant has 158 coke ovens, which have been in blast since the opening of the operation, except for a few months during the year of 1908.

In my report of the first explosion, I noted that the mine is developed by two main entries, running parallel to each other and about 2000 feet apart. One of the entries is designated as the New Main drift of Lick Branch opening, and the other drift as the Old Main drift or Tug River opening.

The first explosion occurred between the old Main or Tug River opening and the New Main; but did not extend east of the New Main entry. (See map for location of bodies in first explosion, filed with said report).

The coal mined is the No. 3 Pocahontas seam and has an average thickness of eight feet six inches clean coal. It has a sandstone roof and practically no timber is used in posting.

The mine has always been perfectly free from explosive gases. In fact no explosive gas has been found in the mine either before or after each of the explosions.

The mine is ventilated by an exhaust fan 20 feet in diameter, 110 revolutions per minute, driven by 100 Horse Power, 2200 volt, 3 phase A. C. Motor. The fan was originally built by Kenny & Company, Scottsdale, Pa.; but has been recently rebuilt by the company.

The fan was not affected by the explosion so they were able to start it again at once.

The ventilation of the mine at this time was conducted by one intake. The air entering in at the New Main drift and then was conducted to the face of third X entry, and then back to the fifth X entry, through 5-1 entry to the face of eighth X entry. Then through 8-1 entry to its face. Then to eleventh X entry, through 11-2 to 12 X entry, and then back to the Old Main entry, to Dip B or Italy, to face of B-1, and then again back to Old Main entry and to tenth X entry, and from there through Old Main entry to the fan. (See map attached to this report.)

The second explosion seemed to have originated on the east of the New Main entry and to have extended all over the mine.

The Department of Mines was notified of the explosion at 9:02 A. M. on January 12th—just 25 minutes after it occurred.

I left by the first train to the scene, arriving there that evening. I found the mine in charge of District Inspectors D. R. Phillips and William Nicholson, who had a force of men working on the recovery of bodies. I remained until the following day when I returned to Charleston. District Inspectors Henry and Grady afterwards arrived at the mine and assisted in the recovery of the bodies, so that by Friday evening January 15th the mine was cleared of all the dead bodies.

For a location of the position of the bodies as found by the rescuing party see map attached to this report. The numbers refer to the location of the body, also to the name as given in the testimony of the physicians at the Coroner's Inquest.

I arrived again at Lick Branch mine on the evening of January 15th and on the next day, January 16th, together with District Inspectors D. R. Phillips, Earl A. Henry, William Nicholson, P. A. Grady, several mine officials and mining experts, made a careful examination of the workings of the mine on the east side of the New Main entry, for the purpose of ascertaining, if possible, the cause of the second explosion.

We found that black powder was used by the miners in blasting down their coal. As the thickness of the seam is 8 feet 6 inches and is undercut by a seven foot Electric Mining Machine, it would naturally take considerable force to blow down the coal.

The miner begins his hole at about 5 feet from the bottom and bores it upwards so as the back part of the hole will be about one foot from the roof. The depth of the hole will be seven feet, the same as the undercut.

We found an overcharged hole in room No. 21, 5-1 entry, which in our judgment, was, in all probability the initial point of the explosion. This hole was bored on the left rib of the room, and was evidently tamped with slack coal. The coal was blown back from the face and across the room showing that considerable force was produced by the powder loaded in the hole.

The dust adhering to the coal on the ribs, was charred and coked. Also the slack on the floor of the room was coked to a depth varying from one-half to one inch thick near the face of the room.

There is a breakthrough started on the right of this room, about 50 feet from the face of the room. In this breakthrough were found the bodies of two men. (Nos. 29 and 30 see Map attached.) These bodies were badly burned, their clothing having been burnt off and their flesh seemed also to be burned. It would seem, as if these men had gone into this breakthrough to seek refuge while firing the shot.

The effect of the overcharge hole was, that probably a considerable amount of powder was not consumed by blasting the coal, but was spent by burning in shape of a flame. This in turn taking up the finely powdered dust in suspension was doubtless the initial point of the explosion. The single line of force shown in this room and the direction taken from here, determined in our mind that this was the initial point of the explosion.

The condition of 5-1 entry by its charred ribs and coked coal gave additional proof of the blown out shot.

The explosion passed down the room, began to distribute itself throughout various directions in the entry. One part of the force going down fifth X entry to third X entry. Another force going through 5-1 entry to eighth X entry and from there to 8-1 entry, and these forces going through the New Main entry to 11th X entry, and from there to the Old Main entry. Then along this entry to the Tug River opening and also to the fan entrance. Three bodies (Nos. 63, 64 and 65 see Map) were found in Old Main entry. One body (No. 58 See map) was found within 350 feet from Tug River opening.

In studying the layout of the Lick Branch mine, we find that the method of working same, was along practical lines, and evidently no expense was spared to bring the property to its greatest efficiency, both as to ventilation and the safety of its employees.

It is an evident fact, that in mining this seam of coal, other means than pick mining must be employed, and that the blasting of the coal can be accomplished with a minimum amount of danger. In order to accomplish this I think it is necessary to employ shot firers, who shall have charge and be responsible not only for the firing of the shots, but for the quality and quantity of explosives used. Also that all holes should be tamped with clay. That in gaseous mines some safety explosives other than black powder be used. That the blasting as far as

it is possible should be done between shifts, when the men other than the shot firers are out of the mine. Also that the dust from the machine cuttings should be first loaded out before firing the holes. There is no doubt that at present one of the most dangerous conditions in the mine is occasioned by the accumulation of coal dust.

There are several methods that can be employed to keep the mine watered and the air moistened so as to saturize the dust.

I herewith attach the report of the District Inspectors, E. A. Henry, D. R. Phillips and P. A. Grady, also a Map of the mine showing the position in the mine of the bodies as found by the recovering party.

Respectfully submitted,

January 26th, 1909.

Charleston, W. Va.

JOHN LAING,

Chief of Department of Mines.

State of West Virginia:

County of McDowell: ss.

An inquisition taken at Switchback, in the said County of McDowell on the 13th day of January, in the year 1909, and following days, before C. W. White, a Justice of the Peace of said County, upon the view of the bodies of Henry Lee and divers other persons there lying dead.

The jurors sworn to diligently inquire and true presentment make when, how and by what means the persons whose bodies lay dead before them came to their respective deaths upon their oath do say that the said persons, to-wit:

- | | |
|----------------------|------------------------|
| 1. Everett Phillips, | 33. Dowdy Miller, |
| 2. Luther Boldin, | 34. Peter Heppenstall, |
| 3. Walter Giles, | 35. Unidentified, |
| 4. John Hunter, | 36. C. J. Hariston, |
| 5. George Enssey, | 37. J. Henry Bolen, |
| 6. J. H. Cobbs, | 38. Mike Robensky, |
| 7. Chas. Phillips, | 39. Mel Hunter, |
| 8. A. R. Jones, | 40. Jno. Mitchell, |
| 9. Frank Hairston, | 41. H. A. Leonard, |
| 10. Ed. Rose, | 42. S. C. Clark, |
| 11. Brown Lee, | 43. Unidentified, |
| 12. Unidentified, | 44. Unidentified, |
| 13. Unidentified, | 45. Jno. Mahoney, |
| 14. Henry Lee, | 46. Albert Abell, |
| 15. George Peters, | 47. Henry Waller, |
| 16. Ernest Terry, | 48. Unidentified, |
| 17. Unidentified, | 49. Tobe Hutcheson, |
| 18. Unidentified, | 50. Walter Martin, |
| 19. Elk Clark, | 51. Jim Martin, |
| 20. Unidentified, | 52. Bruce Mann, |
| 21. A. R. Miller, | 53. Chas. Howard, |
| 22. Joe Jones, | 54. Floyd Buffalo, |
| 23. Taylor Staples, | 55. Chas. Wellford, |
| 24. David Surratt, | 56. Jno. Smith, |
| 25. Ed. Collins, | 57. Walter Eversole, |

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- | | |
|----------------------|------------------------|
| 26. Riley Surratt, | 58. Con Holladay, |
| 27. Anthony Johnson, | 59. Clarence Mitchell. |
| 28. Lemuel Dean, | 60. Dan Watson, |
| 29. James Ayers, | 61. A. P. McDade, |
| 30. Robt. Wyatt, | 62. Will Durphey, |
| 31. Henry Bowles, | 63. Jno. Hague, |
| 32. Dan Arrington, | 64. Thos. Myers, |
| 65. Robt. Buffalo. | |

came to their death by an explosion in the Lick Branch Mine, caused by an overcharge shot of gun-powder in room 21 off 5-1 entry in what is known as new main of said mines.

As we, the jury according to the evidence in the above cases further say that we exonerate the Pocahontas Consolidated Collieries Company, Incorporated or the Lick Branch Colliery from all blame and responsibility for said explosion.

In testimony whereof the said Justice and Jurors hereto set their hands, this 16th day of January, 1909.

C. W. WHITE, Justice of the Peace.

W. R. SHEETS, Juror.

O. R. ANDERSON, Juror.

W. C. HORTON, Juror.

E. V. BAILEY, Juror.

E. W. ST. CLAIR, Juror.

CHAS. HARRIS, Juror.

— · Luck French Colliery · —

1111, HOLLIVG
 Certificate January 8, 1900
 Date of Inspection by
 State Marine Inspection Department
 After purchase of Rodent
 Under Application No. 12, 1900

— P. 221 —

1. $\frac{1}{2}$ of the 1st 1000 = 500

2. $\frac{1}{2}$ of the 2nd 1000 = 500

3. $\frac{1}{2}$ of the 3rd 1000 = 500

4. $\frac{1}{2}$ of the 4th 1000 = 500

5. $\frac{1}{2}$ of the 5th 1000 = 500

6. $\frac{1}{2}$ of the 6th 1000 = 500

7. $\frac{1}{2}$ of the 7th 1000 = 500

8. $\frac{1}{2}$ of the 8th 1000 = 500

9. $\frac{1}{2}$ of the 9th 1000 = 500

10. $\frac{1}{2}$ of the 10th 1000 = 500



SECOND EXPLOSION.

REPORT ON LICK BRANCH MINE SECOND EXPLOSION.

Clifton, W. Va., January 19th, 1909.

HON. JOHN LAING,
Chief of Department of Mines.
Charleston, W. Va.

Dear Sir:—I herewith submit the following report of the second disastrous explosion which occurred at 8:30 A. M., January 13th, 1909, whereby sixty-five persons lost their lives in the Lick Branch Mine, located in McDowell County, West Virginia, operated by the Pocahontas Consolidated Collieries Company.

At the time of this explosion I was in Charleston, W. Va., at which place I received a message from Mr. Laing, Chief of the Department of Mines, advising me of the explosion, also instructed me to hasten to the scene and render all possible assistance in protecting the persons who were engaged in recovering the dead bodies from the mine.

I arrived at the mine the evening of the 13th, at which time I entered the mine and assisted in restoring ventilation and recovering the bodies.

On Saturday, the 16th, I again entered the mine in company with Chief Laing, District Inspectors D. R. Phillips, Nicholson and Grady, with Company officials and Mine experts, for the purpose of investigating the cause of the explosion, and if possible locate the point of origin. The condition inside of the mine gave evidence that the second explosion had occurred in a part of the mine known as the New Main; which part was not in any way affected by the first explosion. We made a thorough investigation of rooms and headings, at which time we found different places that might have been the starting point of this explosion, but the best evidence as to the point of origin was found at face of room No. 21, entry 5-1, where an overcharged shot had been fired on the left side of the room throwing coal to the opposite side of the room. There were also evidence of heat as charred dust on the ribs and pavement, and the bodies of two men found in the breakthrough were badly burned. Judging from the position in which they were found, it was evident that they had retired to this breakthrough to be out of range after lighting the shot at the face of the room No. 21, entry 5-1. The evidence on this entry is conclusive that the force came from the face of room No. 21, which is demonstrated by the rounded corners of the coal on the inby exposures, increasing in volume by a series of new explosions, or re-enforcements fed by accumulations of coal dust, and in all probabilities more or less blasting powder, and spreading destruction in every part of the New Main and the Old Main workings, unless where its force was diminished by the presence of water, or the absence of coal dust.

At no time during the work of removing the dead bodies from the mine, or in making the final investigation were we able to find the slightest trace of fire damp. This being the case in my judgment dust was the principal factor in this fearful explosion, causing great loss of life and destruction to property.

In some instances we found that rooms and headings were driven

beyond what is known as the eighty foot limit, between breakthroughs, we also found several places that gave positive evidence of excessive use of powder; which is certainly a dangerous practice in a dry mine. Where the coal is cut by machinery which creates considerable dust, that would be easily placed in suspension and fired by an overcharge or blown out shot, or by the explosion of a keg of powder.

I am in the opinion that in keeping all parts of the mine where there is an accumulation of dust well watered, especially near the working faces, where the blasting is done would minimize the chances of an explosion. And by the adoption of safety explosives and using clay for tamping with experienced men employed as shot firers, who would have charge of placing the hole and the amount of explosives to be used in each hole would certainly eliminate the probabilities of a general explosion throughout the mine.

Yours respectfully,

EARL A. HENRY,
Inspector Fifth District.

Charleston, W. Va., January 23rd, 1909.

MR. JOHN LAING,

Chief of Department of Mines,

Charleston, W. Va.

DEAR SIR:—At the Lick Branch Mine of the Pocahontas Consolidated Collieries Company, in McDowell county, there occurred an explosion January 12th, 1909, which took the lives of sixty-five men and injured one other person.

On January 5th, 1909, I left this mine after making an investigation of the explosion which occurred there on December 29th, 1908. A report of this investigation I submitted to you on January 9th, 1909.

Hearing of the explosion of January 12th, 1909, I immediately left my home and reached the mine at 1 p. m. on the day following. Up until Saturday I assisted in the rescue work of recovering the bodies, and on January 16th with a number of Inspectors, mining men and yourself I made an investigation to determine if possible what caused this second explosion; happening as it did so closely after the first one.

The condition which existed at this mine prior to the first explosion, I described to you in my report of January 9th, 1909. The mining of coal in one section of the mine was resumed a few days previous to the second explosion. This section is in a different part of the mine and a considerable distance from the seat of the first explosion.

Room No. 21 on 5-1 entry shows evidences where a shot had been fired in the left rib of the face. From the conditions of the remaining part of the hole and of the coal in the face, it could be seen that the charge of powder in this hole when fired caused a windy shot, which I believe distilled the gases from the coal dust held in suspension in the atmosphere of the mine and propagated itself by the dust furnished as it traversed the area covered.

In my first report to you, I made recommendations, which I thought covered the ground thoroughly to prevent explosions in such mines. As

these recommendations might be abused by the class of labor we have working in the mines of our state, I would suggest a further preventative, that shot firers be employed to shoot the coal when all other employes are out of the mine.

Very respectfully,

P. A. GRADY,
Mine Inspector 12th District.

REPORT OF LICK BRANCH SECOND EXPLOSION.

HON. JOHN LAING,
Chief of Department of Mines,
Charleston, W. Va.

DEAR SIR:—I herewith submit the following report on the second explosion which occurred about 8:40 a. m., January 12th, 1909, resulting in the death of sixty-five persons. At the time the explosion occurred I was on train No. 15, on my way to visit some mines on the Norfolk & Western Branch of the N & W. R. R. Upon the arrival of the train at Northfork, I was informed of the disaster and learned at the same time that a freight train was ready to depart. I caught the freight and arrived at the mine about 1½ hours after the explosion occurred.

Upon my arrival the work of rescue was placed in my hands, and I began at once to organize for that purpose. I selected the most practical and trustworthy men available, as foremen for the several departments required in the prosecution of this work.

I was given valuable assistance in organizing the crews by Mr. Nicholson, Inspector for the Eleventh District, who arrived upon the scene in about two hours after my arrival. The organization was made more complete, by the arrival that evening of yourself, and the following day Inspectors Henry and Grady.

The work of rescue was carried on successfully without any interruption, the last bodies recovered in the afternoon of the 15th inst.

On the 16th I entered the mine with the Chief of this Department Mr. Laing, Inspectors Henry, Grady and Nicholson, Mr. Krebs and several other expert mining men, and mine officials, for the purpose of making an investigation as to the cause of the explosion, and the point where it originated. We began the investigation in the entries nearest the opening called the New Main opening; we made a thorough examination of rooms and entries from this point to the face of the workings of the New Main district, which area had apparently not been affected by the former explosion.

As we continued from the first mentioned entries inward to the center of the district, the evidence as indicated by the rounded inby projections and the direction in which the debris had been thrown, was plain that the force had come from some point in advance of us. This condition changed after we arrived at 5-1 entry, at this point the force seemed to have separated going in several directions. The point from which the force seemed to radiate was in the vicinity of No. 21 room, off the 5-1 entry. A careful examination of this room disclosed evidence of great heat having

been there, the ribs were charred and coked, as also was the face of the room and the coal on the floor. A shot had been fired on the left side of the room, a portion of the coal having been thrown to the right side; this together with the shattered condition of the coal strewn in front of the shot, was very good evidence of it having been heavily overcharged. Two men were found in a break-through off of this room in such position as to justify the assumption that they had retired there for protection when firing the shot. These men were badly burned.

We continued from this point forward, to the face of the workings and found evidence of the force in some parts, having become so reduced as to make it next to impossible to determine its direction, but upon moving onward we found that it had been re-enforced again, by dust, powder, or probably the necessary oxygen to produce a more complete combustion of the dust. It was an easy matter when this condition was encountered to trace its course by the direction of the wreckage, and work projections on the ribs.

We found conflicting evidence in many places, but No. 21 room on 5-1 entry seems the most probable point of origin. I re-entered the mine again on the 19th inst. for the purpose of accompanying some expert mining men in an investigation of the mine. I saw considerable evidence that had been overlooked upon our investigation of the 16th, but nothing that altered my opinion as to the point of origin.

Our investigation developed that in several instances, rooms and entries had been driven beyond the distance required by law between break-throughs; also that in many places an excessive quantity of powder was used in blasting, and that holes were improperly placed.

In my report on the first explosion which occurred December 29th, 1908, I made the statement that a repetition of this deplorable calamity might occur in this or any other mine, unless there were some changes in the method of blasting the coal. I also recommended certain methods by which the danger from this source would be minimized, and I would urge such legislation as would result in taking out of the hands of the ignorant inexperienced miners the charging and firing of shots, and place it in the hands of intelligent experienced men.

Yours very truly,

D. R. PHILLIPS,

Inspector Tenth District.

January 26th, 1909.

Thurmond, W. Va., March 15th, 1909.

MR. H. B. BEURY, Supt.

Beury Bros. C. & C. Co.,

Beury, W. Va.

DEAR SIR:—It has been fully demonstrated in many different ways, and by our experimental station at Pittsburg, that the use of black powder in mines located in the New River and Pocahontas coal fields is a source of great menace to life and property, and I am serving notice on all operators in this district that on and after April 1st, black powder will not be permitted to be used inside of these mines, and that nothing but the so-called safety powder will be permitted to be used to shoot coal

with, and then to be stemmed with clay from the surface, all holes to have full length fuse.

Dynamite will be permitted only for shooting slate or rock; then it must be placed within a hole with fuse the full length of the hole, and stemmed as above.

I will appreciate it very much if you will enforce the above instructions at your mine at once, as I will expect them to be enforced after this date.

Hoping to have an early reply to the above,

Yours very truly,

J. A. STRAUGHAN,

Mine Inspector 8th District.

State of West Virginia,

County of Fayette, to-wit:

An inquisition taken at Beury, Fayette county, West Virginia, on the 7th day of April, 1909, before J. E. Long, a Justice of the Peace of said county of Fayette, State of West Virginia, upon review of the bodies of:

Sam Melhorn

Andrew Melhorn,

John Blumefield,

William Smith,

Charles Jones,

Andy Sydenstricker, there lying dead.

Thereupon the following jurors were selected and sworn by the Court to answer questions to be propounded, touching their qualifications as jurors, in this matter:

J. R. Long, J. P.

J. H. Jones, Juror.

J. A. Higginbotham, Juror.

W. E. Gwinn, Juror.

C. I. Leet, Juror.

G. W. Olice, Juror.

Edward O'Halloran, Juror.

Present:—

Mr. John Laing, Chief Mine Inspector, for the State.

Mr. C. W. Osenton, of Counsel for the Beury Brothers Coal & Coke Co.

Here the Jury returned into Court with their verdict, signed by their Foreman, to which they all agreed, which is in words and figures following, to-wit:

"We, the Jury find that Sam Melhorn, Andrew Melhorn, John Blumefield, William Smith and Charles Jones came to their deaths on the 31st day of March, 1909, and that Andy Sydenstricker came to his death on the 5th day of April, 1909, from the effects of after damp caused by reason of an excessive charge of dynamite ignited and fired by Charley Jones, on a slab of slate or rock in fourth right entry off of Carter's entry, in the Echo

Mine, which is owned and operated by Beury Brothers Coal & Coke Company, at Beury, Fayette County, West Virginia.

(Signed.) C. H. FROST,
Foreman."

Sun, W. Va., Feb. 25, 1909.

MR. JOHN LAING,
Chief of Department of Mines,
Charleston, W. Va.

DEAR SIR:—I wish you would arrange to make a trip to our Red Ash and Rush Run mines at your earliest possible convenience. Bring with you two of your assistants for the purpose of getting your opinion as to whether or not we should use safety lamps in these mines. If I am not mistaken it has been coal dust and not gas in these mines. As we have a good spraying system, by loading all dust that may be necessary and keeping the ventilation up to date we can dilute and render harmless all gas that may be generated and as we are using electricity at all working faces I cannot see why we should use safety lamps.

However, if after examination by the four of us it is decided we should use these lamps I will be willing to abide by said decision.

Yours very truly,

JAMES MARTIN,
General Manager.

MR. JAMES MARTIN, Gen Mgr.,
Sun, W. Va.

DEAR SIR:—I have made arrangements with my deputies, Wm. Warner, John Phillips, Earl A. Henry, J. A. Straughan and P. A. Grady, to visit your Red Ash and Rush Run mines on the south side of New River, relative to the use of safety lamps as per your letter.

As I formerly owned these mines I feel in justice to the Department and your company, to let these gentlemen determine this question rather than myself.

I hope it will be your pleasure to meet these gentlemen on Wednesday morning, that you may visit the mines jointly with them.

Very truly,

JOHN LAING,
Chief of Department of Mines.

Charleston, W. Va., March 12, 1909.

To District Mine Inspectors:—

Mr. William Warner,
Mr. John Phillips,
Mr. Earl A. Henry,
Mr. J. A. Straughan,
Mr. P. A. Grady,

GENTLEMEN:—The New River Collieries Company, at Rush Run and Red Ash mines on the South Side of New River, in Fayette County, West

Virginia, have written this office and asked for an investigation and decision, as to whether or not this Department persists in the use of Safety Lamps at the Rush Run and Red Ash mines.

As I formerly owned these mines, and the safety lamps were installed shortly after my leaving there, I desire that a very careful and conservative examination be made by you gentlemen, and your decision will be the ultimatum.

The Management claims that there is plenty of water in the mines to produce moisture, and that they are using safety powder, sprays and, etc., and that in their judgment they are being unjustly dealt with by being forced to use safety lamps. This is a question that I wish you to take ample time to go through all parts of these workings, and use your combined knowledge in a general way, and render to this Department a report in accordance with your best judgment of mines. I am,

Very truly,

JOHN LAING,

Chief of Department of Mines.

Thurmond, W. Va., 3-18-1909.

MR. JOHN LAING,

Chief of Department of Mines

Charleston, W. Va.

DEAR SIR:—In compliance with your instructions of the 12th inst., we submit the following report of the Rush Run mine.

We made our inspection of the above mine on March 17th.—

1st. As to Gas:—We made a thorough inspection and found no gas that could be detected with a safety lamp.

2nd. As to Dust:—Considerable dust was found in various parts of the mine.

3rd. As to Ventilation:—Not sufficient volume in circulation around some of the advanced workings.

We advise that the safety lamps now in use may be dispensed with, and urge that the following recommendations be complied with promptly. That the present system of shooting of coal be continued, viz.: The use of so-called safety explosives exclusively, clay tamping, and all firing to be done by a battery.

That all accumulations of dust be loaded out as far as possible. We heartily approve of the present use of sprays, and would suggest that the number of sprays be increased, and that the dust be kept thoroughly watered especially near the working faces.

Signed.

J. A. STRAUGHAN, Inspector 8th District.

WM WARNER, Inspector 7th District.

EARL A. HENRY, Inspector 5th District.

JOHN PHILLIPS, Inspector 9th District.

P. A. GRADY, Inspector 12th District.

DEPARTMENT OF MINES,
STATE OF WEST VIRGINIA,

JOHN LAING,
Chief of Department of Mines.

Charleston, March 10, 1909.

Mr. D. R. Phillips,
Mr. Wm. Warner,
Mr. John Phillips,
Mr. J. A. Straughan,

GENTLEMEN:—It has been fully demonstrated in many different ways, and especially by our Experimental Station at Pittsburg, that the use of Black Powder in mines located in the New River and Pocahontas coal field, is a source of great menace to life and property,—and you will please give notice to the management of all mines in your district operating in these seams; that on and after April 1st, black powder will not be permitted in these mines, and that nothing except the so-called safety powder will be permitted to be used for the shooting of coal.

I find that in some instances dynamite is still being used in breaking slate. It is absolutely necessary, that where dynamite or any other explosive is used in mines for the breaking of rock, of any kind, that a hole be drilled in such metals and the explosive placed therein and properly tamped in before shooting, and under no circumstances must sand blasting be permitted. I am,

Very truly,

JOHN LAING,
Chief of Departments of Mines.

Thurmond, W. Va., Mar. 18, 1909.

MR. JOHN LAING,
Chief Department of Mines,
Charleston, W. Va.

SIR:—In compliance with your instructions of the 12th inst. we submit the following report of the Rush Run mine.

We made our inspection of the above Mine on Mar. 17th.

1st. As to Gas:—We made a thorough inspection and found no gas that could be detected with a safety lamp.

2nd. As to Dust:—Considerable dust was found in various parts of the Mine.

3rd. As to Ventilation:—Not sufficient volume in circulation around some of the advanced workings.

We advise that the safety lamps now in use be dispensed with, and urge that the following recommendations be complied with promptly. That the present system of shooting the coal be continued, viz.: The use of so-called safety explosives exclusively, clay tamping, and all firing to be done by a battery.

That all accumulations of dust be loaded out as far as practicable.

We heartily approve of the present use of sprays, and would suggest

that the number of sprays be increased, and that the dust be kept thoroughly watered especially near the working faces.

Signed.

J. A. STRAUGHAN, Inspector 8th District.

WM. WARNER, Inspector 7th District.

EARL A. HENRY, Inspector 5th District.

JOHN PHILLIPS, Inspector 9th District.

P. A. BRADY, Inspector 12th District.

NEW RIVER COLLIERIES COMPANY,
Sun, West Virginia, March 22nd, 1909.

MR. JOHN LAING.,

Chief Mine Inspector,
Charleston, W. Va.

DEAR SIR:—I have just received a letter from Deputy Inspector Straughan to the effect that after April 1st, safety powder must be used in all of the mines in his district. I simply ask you if it is the intention of the Mine Department to force this rule, as you know there are mines in this district where black powder has been used for twenty years and no accident has happened. Of course mines like Red Ash or Rush Run need safety powder, but a mine like Brooklyn I do not believe it necessary, but will be governed according to the reply received to this letter.

JAMES MARTIN,
Charleston, W. Va., 3-11-09.

To District Mine Inspectors:

Mr. William Warner,
Mr. John Phillips,
Mr. Earl A. Henry,
Mr. J. A. Straughan,
Mr. P. A. Grady,

GENTLEMEN:—The New River Collieries Company, at Rush Run and Red Ash Mines on the South Side of New River, in Fayette County, West Virginia, have written this office and asked for an investigation and decision, as to whether or not this Department persists in the use of Safety Lamps at the Rush Run and Red Ash mines.

As I formerly owned these mines, and the safety lamps were installed shortly after my leaving there, I desire that a very careful and conservative examination be made by you gentlemen, and your decision will be the ultimatum.

The Management claims that there is plenty of water in the mines to produce moisture, and that they are using safety powder, sprays and, etc., and that in their judgment they are being unjustly dealt with by being forced to use safety lamps.—This is a question that I wish you to take ample time to go through all parts of these workings, and use your combined knowledge in a general way, and render to this Department a report in accordance with your best judgment of mines. I am

Very truly,

JOHN LAING,
Chief of Department of Mines.

DEPARTMENT OF MINES,

STATE OF WEST VIRGINIA,

JOHN LAING,
Chief of Department of Mines.

Charleston, 3-25-09.

*To District Mine Inspectors:—*J. A. Straughan,
WM. WARNER,
EARL A. HENRY,
JOHN PHILLIPS,
P. A. GRADY,

SIR:—As per your request of the 8th inst., I herewith enclose you copy of report on the Red Ash and Rush Run mines, also copy of letter written to Mr. Mr. James Martin, Gen. Mgr., Sun, W. Va.

Very truly,

JOHN LAING,
Chief of Department of Mines.DEPARTMENT OF MINES,
Charleston, W. Va., March 24, 1909.MR. JAMES MARTIN,
General Manager,
Sun, W. Va.

DEAR SIR:—In compliance with your request that you be given permission from this Department to use open lights in your Rush Run and Red Ash Mines. Would say in this connection, that I have had District Inspectors Mr. J. A. Straughan, Wm. Warner, Earl A. Henry, John Phillips, and P. A. Grady to inspect these mines for this purpose. And after receiving their report and considering same, I give you permission to use open lights in this mine on and after Wednesday the 31st day of this month, with the following understanding.

That you continue to use safety powder in these mines exclusively, and furnish clay at all points of these mines so that shot firers can easily secure same for the purpose of tamping, and that all shots be fired by electric batteries; that no shooting will be permitted from the solid, and that all dust will be kept properly cleaned, and road ways and rooms well dampened by watering, and that your present system of sprays will be increased in number so as to keep sufficient moisture near your working places.

And it is especially understood that your ventilation be so distributed that a sufficient volume at all times be in circulation around working faces and advanced workings, to carry off and render harmless any gases that may escape. I am,

Very truly,

JOHN LAING,
Chief of Department of Mines.

DEPARTMENT OF MINES,
State of West Virginia.
Charleston, June 5, 1909.

Mr. John J. Lincoln, Secy.,
Pocahontas Coal Operators Assn.,
Elkhorn, W. Va.
Mr. G. H. Caperton, Secy.,
New River Coal Operators Assn.,
Caperton, W. Va.
Mr. Neil Robinson, Secy.,
West Virginia Mining Assn.,
Charleston, W. Va.
Mr. J. B. Hanford, Pres.,
West Virginia Coal Mining Institute,
Morgantown, W. Va.
And,

To All Mine Operators in General:

Gentlemen:—Answering your request for information as to the attitude of this Department in regard to the use of black powder in the coal mines of West Virginia, will state that the rule of this Department is as follows:

No black powder, dynamite, or explosives other than those recognized by the United States Government as a safety explosive shall be used at any time in the mines of this State, and such safety explosives shall be used only subject to the proper regulations governing their use.

Before discussing any exceptions to this rule, I desire to briefly outline the present conditions of the mining industry in this State, with a view to make clear to you the reasons which in my opinion as Chief of the Department of Mines render it imperative that this Department should take a determined stand in this matter. It is unnecessary and would be unbecoming for me to assume that you and those who you represent, or the operators of this State generally, are slower to recognize the duty of this Department to place the lives and safety of the miners and mine employes of the State above and beyond all commercial or material considerations than I am.

My personal experience as an operator, and my knowledge of those engaged in this industry in West Virginia, will not permit me to hesitate for a moment in asserting that the operators of this State will unite and co-operate with this Department in any reasonable regulations for the prevention of personal injuries and loss of life without regard to pecuniary considerations.

We have at this time employed in and about the mines of the State some 60,000 miners and mine laborers. Development work is being rapidly done, new mines are being opened, old mines are installing new equipment, materially increasing their production; and the indications are, that when conditions become normal and the looked-for resumption of business activity is realized, there will be, upon a conservative estimate, a shortage of from 18,000 to 25,000 mines and mine laborers. The same conditions which create the necessity for additional mine laborers

for the profitable and economical operations of our mines, will prevent the importation of practical miners from other coal fields, thereby necessitating supplying the demand for additional laborers from foreign countries—a class of labor, which past experience has taught us, has no experience whatever in mines, nor realization whatsoever of the dangers that surround the every day operations of a coal mine; whose lack of education, experience and practical knowledge endangers the safety and lives of every miner and mine laborer in the State.

At the present time we have employed in this State a sufficient number of this class to menace the lives of their fellow workmen. The additional number which must necessarily be added to meet the conditions above outlined, makes it necessary to meet this problem squarely, and to allow no pecuniary reasons, personal inconvenience, or other consideration to prevent this Department, aided and assisted by the operators of the State, for putting into force and effect without delay, all reasonable rules and regulations which will prevent the loss of life and the destruction of property, which in my opinion, is obliged to result from these conditions unless the greatest vigilance is shown by this Department in providing against these contingencies and the greatest loyalty shown by the operators to the Department in its efforts to preserve the safety and lives of the miners and mine laborers of the State, and the property of those engaged in this great industry.

I cannot give permission to any mine in the State to continue the use of black powder. Conditions in coal mines change from day to day. A mine in a condition to be called safe now, may, in a very brief period, from various causes, become dangerous. This Department cannot place itself in a position to be held responsible for damages resulting from mining methods it does not approve of, and can, therefore, only lay down certain rules and regulations applicable to all the mines of the State.

The exceptions to the general rule above quoted are as follows:

(1) Black powder may be used in the mines of this State, provided that a sufficient number of officers be employed in such mines to supervise and direct all drilling, tamping, etc., and to see that this work is done in a practical and legal manner. It will be the duty of such officer to further see that all rooms, entries and other places in the mines are properly posted and all conditions safe before any shooting is done.

They shall further direct how many shots shall be fired in one room, and see that these shots are fired as the law directs. Such officers must be selected by the State District Mine Inspector in charge, who will examine each of them as to a knowledge of the mining law of the State, and as to a general knowledge pertaining to the shooting of coal, rock, etc., under the conditions existing in the mines of this State. Such officers must also be examined as to evidence, knowledge and safe use of black powder and other explosives; and will only be granted permission to act upon showing general proficiency in such examinations.

(2) Coal operators may use black powder for blasting purposes, provided they all agree that no blasting of any kind will be permitted to be done in such mines during the day, or when as many as ten miners are at work in the mine; That all shooting will be done after night, and when

all miners who are employed during the day, are out of the mine; that shot-firers specially qualified, and who have been given permission by the State District Mine Inspector, after examination as provided in rule First, be employed to do the shooting.

Such shot-firers shall commence shooting in places nearest to the points where the air is discharged on the outside, for the purpose of preventing an explosion from the gases generated by previous shots; such shot-firers shall immediately after the completion of their work, post notices in a conspicuous place in the mine, provided for that purpose, in which shall be indicated the number of shots fired; and if for any reason they should fail to fire any shots in the mine that were charged, or any that were not charged, they shall also specify the room and describe the entry where such shots were placed, and give their reason for not firing same.

No shots that have missed firing shall be drilled out, but a new hole shall be drilled in such a manner that it will not come in contact with the powder which has been placed in the original hole, and care must be taken in charging the second hole in order to erase the danger of an over-charge.

(3) Mine operators may refuse to employ Shot Inspectors in his mines, provided that he will agree that no black powder, dynamite nor any other explosive, other than that permitted by the United States Government as a safety explosive shall be used at any time whatever for blasting purposes in such mines, and these explosives shall be used only as the law provides, relative to shooting of all kinds.

I enclose a list of permissible explosives as prescribed by the United States Government and referred to herein.

I hope that this will give you the information that you desire, and confidently rely upon the co-operation of your Association and the other coal operators of this State in my efforts to safeguard the mining operations of the State and enforce all proper rules and regulations without fear of discrimination.

Very truly,

JOHN LAING,

Chief of Department of Mines.

P. S.—For further information I would advise that each Inspector in all of the mining districts of the State will have instructions to put the above into effect by July 15th.

This Department began the publication of a monthly Bulletin, beginning April 1908, in order to make public the work done by the Mine Department, showing the conditions of the mines, circulars of instructions and rulings as they were issued by the Department in advance of the usual Annual Report; but they were discontinued on December 31st, 1908, for the reason of no funds being available for their continuance.

During the year ending June 30th, 1909, there was one hundred and twenty-one prosecutions, for violation of the Mine Laws. Attention is called to the following table, which shows there was sixty-six prosecutions for violation of the Oil Regulations and forty-one for solid shooting.

PROSECUTIONS FOR VIOLATION OF THE MINING LAWS DURING THE YEAR ENDING JUNE 30th, 1909,

No. of District.	County.	Using Dynamite Contrary to In- spectors' instruc- tions.	Failure to furnish Record Books and Anemometer.	Violation of Oil Regulations	Permitting boys un- der legal age to work.	Taking Excessive quantity of Pow- der into the mine.	Failure to take Air Measurements.	Lighting Cigarettes in gaseous mine— locked safety lamp being used.	Solid shooting.	Incompetent Mine Foreman.	For Firing Powder in the mine with- out drilling hole.	Failure to report Accidents.	Totals.
3	Barbour	—	—	6	—	—	—	—	—	—	—	—	6
4	Monongalia	—	—	4	—	—	—	—	—	—	—	—	4
4	Tucker	—	—	—	—	2	—	—	—	—	—	—	2
5	Mineral	1	—	—	1	—	1	—	—	—	—	—	3
5	Mason	—	1	—	—	—	—	—	—	—	—	—	1
11	Kanawha	—	—	11	—	—	—	—	—	—	—	—	11
11	Fayette	—	—	1	—	—	—	—	—	—	—	—	1
11	Fayette	—	—	—	—	—	—	—	—	—	—	—	1
4	Raleigh	—	—	—	—	—	—	—	—	—	—	—	4
23	Fayette	—	—	3	—	—	—	1	—	—	—	—	23
23	Dowell	—	—	6	—	—	—	—	—	—	—	—	23
13	—	—	—	11	—	—	—	—	—	—	—	—	13
16	Lawell	—	—	7	—	2	—	—	—	—	—	1	16
1	—	—	—	16	—	—	—	—	—	—	—	—	1
2	—	—	—	1	—	—	—	—	—	—	—	—	2
121	—	1	2	66	1	4	1	1	41	1	2	1	121

The following table furnished by the U. S. Assistant Engineer, Mr. Thos. E. Jeffries, of Charleston, W. Va., shows the important features of the locks and dams on the Kanawha River to which the barges pass in transporting their coal to the Ohio river. A barge contains usually from 12,000 to 15,000 bushels or 480 to 600 net tons of coal. For towing the barge there is a charge of five dollars per lock when the dams are up, when the dams are down the charge is twenty dollars from Raymond City to Pt. Pleasant, thirty dollars from Winifrede, thirty-five from Pool No. 3 and forty from Pool No. 2. From Pa. Pleasant to Cincinnati thirty dollars for barge.

TABLE OF IMPORTANT FEATURES OF LOCKS, AND DAMS. KANAWHA RIVER, WEST VIRGINIA.—LOCK.

Number.	Miles from Mouth	1897 low water.	Clear width.	Available length.	Length over all.	Length between Quoins.	Tide Relief.		Style.	Pass.	Weir.	Pass Trestles.	Pass Wickets.	Weir Wickets.	Pass Sill.	Weir Sill.	Upper Pool.	Normal Lift.	When Finished.	Number.
							Miter still.	Top of wall.												
2	84½	585.46	50	271	377	308	578.75	609.75	Fixed		210	16 ft. 2¾ in.	13 ft. 9 in.	6 ft. 8½ in.	561.00	567.75	587.42	10.33	1887	2
3	79½	571.22	50	272	381	312	566.75	596.75	Fixed	248	210	17 ft. ½ in.	13 ft. 10 in.	5 ft. 3 in.	553.50	561.50	573.75	13.67	1882	3
4	74¼	564.41	50	274	365	300	559.75	519.75	Movable	250	266.5	16 ft. 8½ in.	13 ft. 5½ in.	7 ft. 7 in.	546.50	552.00	559.50	7.25	1890	4
5	67¼	556.22	50	274	365	300	552.50	572.50	Movable	248	310	16 ft. 9½ in.	14 ft. 0¾ in.	9 ft. 2 5-32 in.	537.50	542.00	550.50	8.50	1896	5
6	54	548.61	55	313	410.5	342	543.75	565.50	Movable	248	316	16 ft. 9½ in.	14 ft. 0¾ in.	9 ft. 2 5-32 in.	537.50	542.00	550.50	8.73	1893	6
7	44	539.63	55	313	411	342	535.50	555.50	Movable	248	292	16 ft. 9½ in.	14 ft. 0¾ in.	9 ft. 2 5-32 in.	529.25	533.75	542.25	8.00	1893	7
8	36	531.27	55	313	411	342	526.00	547.25	Movable	248	284	16 ft. 9½ in.	14 ft. 0¾ in.	9 ft. 2 5-32 in.	521.25	525.75	534.25	6.25	1898	8
9	25¼	523.64	55	313	411	342	520.50	539.50	Movable	248	284	16 ft. 9½ in.	14 ft. 0¾ in.	9 ft. 2 5-32 in.	515.00	519.50	528.00	7.00	1898	9
10	19	517.41	55	313	411	342	514.00	533.00	Movable	248	284	16 ft. 9½ in.	14 ft. 0¾ in.	9 ft. 2 5-32 in.	508.00	512.50	521.00	10.92	1898	10
11	1¼	510.08	55	313	411	342	504.00	526.00	Movable	304	364	16 ft. 9¾ in.	14 ft. 0¾ in.	9 ft. 2 5-32 in.	508.00	512.50	521.00	10.92	1898	11

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Note:—Upper Miter Sill No. 2—589.75.
" " " " 3—576.75.

*OIL PRODUCTION OF WEST VIRGINIA.**As reported by the Geological Survey, Washington, D. C.*

Regular Crude.	Quantity (Barrels).	Value.	Average Price Per Barrel.
Years 1902-1908	79,322,923	\$123,858.33	\$1.57

Lubricating Crude.	Quantity (Barrels).	Value.	Average Price Per Barrel.
Years 1902-1908	52,020	\$149,517	\$2.87

COAL PRODUCTION BY GEOLOGICAL SERIES AND COUNTIES, 1909.

COUNTY.	Monongahela Series No. 15.	Cone-maugh Series (Elk river) No. 14.	Allegh'ny-Kanawha Series No. 13.	Pottsville New River Pocahontas Series No. 12.	Total (Tons 2240 lbs)
Brooke	309,223		140,424		449,647
Hancock		46,756			46,756
Marion	3,733,765				3,733,765
Marshall	233,848				233,848
Ohio	158,327				158,327
Harrison	3,005,689				3,005,689
Lewis	13,780				13,780
Upsbur	56,021	4,568			60,589
Barbour	483,209	19,300	232,524		735,033
Monongalia	207,495		28,321		235,816
Preston			654,333		654,333
Taylor	421,344		16,289		437,633
Grant			177,406		177,406
Mineral	342,810	94,053	308,795		745,658
Randolph			463,206		463,206
Tucker			1,005,873		1,005,873
Braxton	93,024				93,024
Gilmer	14,740				14,740
Mason	106,802				106,802
Putnam	378,420				378,420
Clay			25,797		25,797
Fayette		144,100	6,325,273	1,128,374	7,597,747
Kanawha		675,434	3,460,779		4,136,213
Boone			3,451		3,451
Nicholas			40,556		40,556
Greenbrier				32,296	32,296
Raleigh			166,312	1,631,500	1,797,812
Mercer				2,103,263	2,103,263
McDowell				9,415,069	9,415,069
Lincoln			49,954		49,954
Logan			1,909,063		1,909,063
Mingo			1,617,581		1,617,581
Wayne			34,619		34,619
Totals	9,558,497	984,211	16,660,556	14,310,502	41,513,766

PRODUCTION IN WEST VIRGINIA IN 1909, ACCORDING TO GEOLOGICAL SERIES AND COAL BEDS.

(Tons of 2,240 lbs.)

COUNTIES.	Monongahela Series No. 15.			Conemaugh Series (Elk River) No. 14.				Allegheny-Kanawha Series No. 13.			
	Sewickley.	Red Stone.	Pittsburg.	Elk Lick	Mason.	Mason-town.	Mahoning No. 5.	Up. Freeport Lewiston.	Lo. Freeport Coalburg.	Up. Kintan-ning, Winifrede.	Middle Kittami'g Ced. Gr' ve
Brooke.....			309,223						140,424		
Hancock.....			3,708,386				46,750				
Marion.....	25,379		253,848								
Marshall.....			158,327								
Ohio.....			3,005,689								
Harrison.....			13,780								
Lewis.....			7,435			4,568					
Upshur.....		48,586						232,524			
Barbour.....		333,250	149,459				19,300	28,321			
Monongalia.....			207,495					646,055			
Preston.....								16,289			
Taylor.....			421,344					16,867			
Grant.....								150,724			
Mineral.....	62,887		279,923	28,482		65,571		463,206			
Randolph.....								445,569			
Tucker.....											
Braxton.....			93,024								
Braxton.....			14,740								
Gilmer.....			106,802								
Mason.....			378,420								
Putnam.....											
Clay.....								4,404			
Fayette.....						144,100					
Kanawha.....					29,530	645,914		219,584	1,151,192		
Boone.....									27,089		
Nicholas.....											
Greenbrier.....									166,312		
Raleigh.....											
Mercer.....											
McDowell.....											
Lincoln.....								8,666			
Logan.....											
Mingo.....											
Wayne.....											
Totals.....	88,266	381,836	9,088,395	28,482	29,530	860,153	66,056	2,216,289	1,497,481	1,890,562	202,202

Monongahela Series No. 15..... 9,553,497
 Conemaugh (Elk River) Series No. 14..... 984,211
 Allegheny-Kanawha Series No. 13..... 12,774,855
 Pottsville-New River Series No. 12..... 18,196,200
 Total, 41,513,766.

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